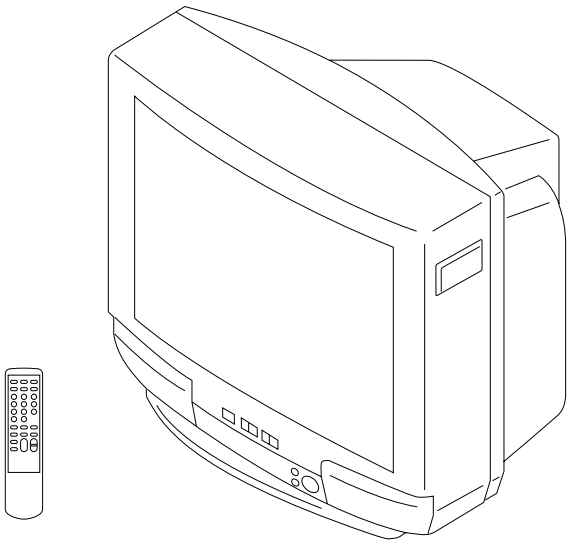
SERVICE MANUAL

BG-1S CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-T21MN8	RM-870	Hong Kong	SCC-J16G-A
KV-T21MN81	RM-870	GE	SCC-J40V-A

MODEL	COMMANDER	DEST.	CHASSIS NO.



MICROFILM

TRINITRON® COLOR TV

SONY®

SPECIFICATIONS

		Note
Power requirements	110-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	B/G, I, D/K, M	
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58	
Stereo system	Nicam Stereo B/G, I; A2 Stereo (German) B/G	
Teletext language	English, German, Swedish, Italian, French, Spanish	KV-T21MN81 only
Channel coverage		
B/G	VHF: E2 to E12 / UHF: E21 to E69 / CATV: S01 to S03, S1 to S41	
I	UHF: B21 to B68 / CATV: S01 to S03, S1 to S41	
D/K	VHF: C1 to C12, R1 to R12 / UHF: C13 to C57, R21 to R60 / CATV: S01 to S03, S1 to S41, Z1 to Z39	
M	VHF: A2 to A13 / UHF: A14 to A79 / CATV: A-8 to A-2, A to W+ 4, W+ 6 to W+ 84	
Audio output (speaker)	3W × 2	
Inputs	Antenna: 75 ohms	
	VIDEO IN jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms, high impedance	
Outputs	Headphone jack: minijack	
	MONITOR OUT jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms	
Picture tube	21 in.	
Tube size (cm)	54	Measured diagonally
Screen size (cm)	51	Measured diagonally
Dimensions (w/h/d, mm)	527 × 464 × 471	
Mass (kg)	22	

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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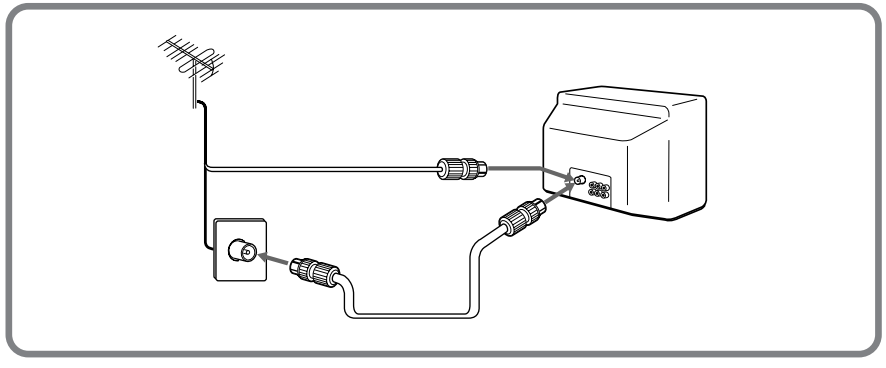
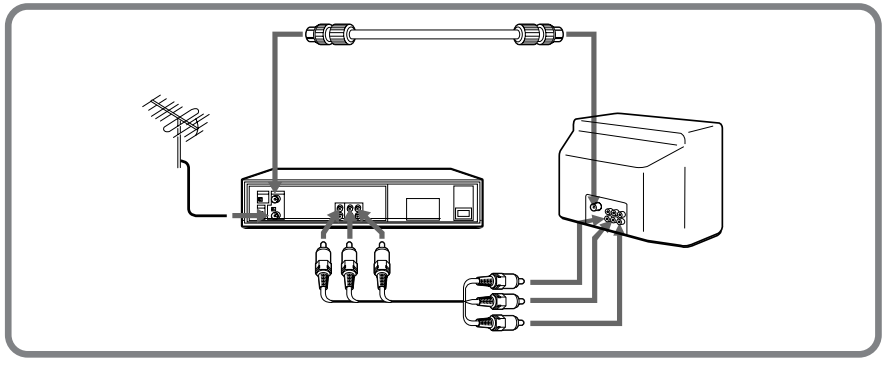
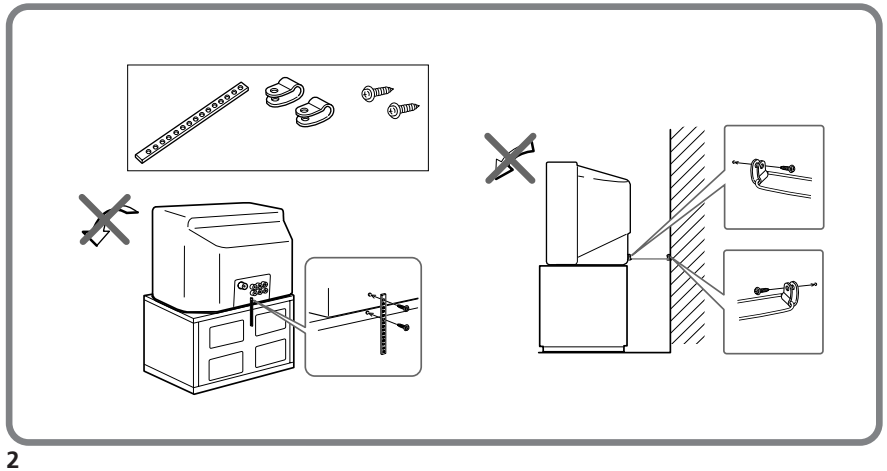
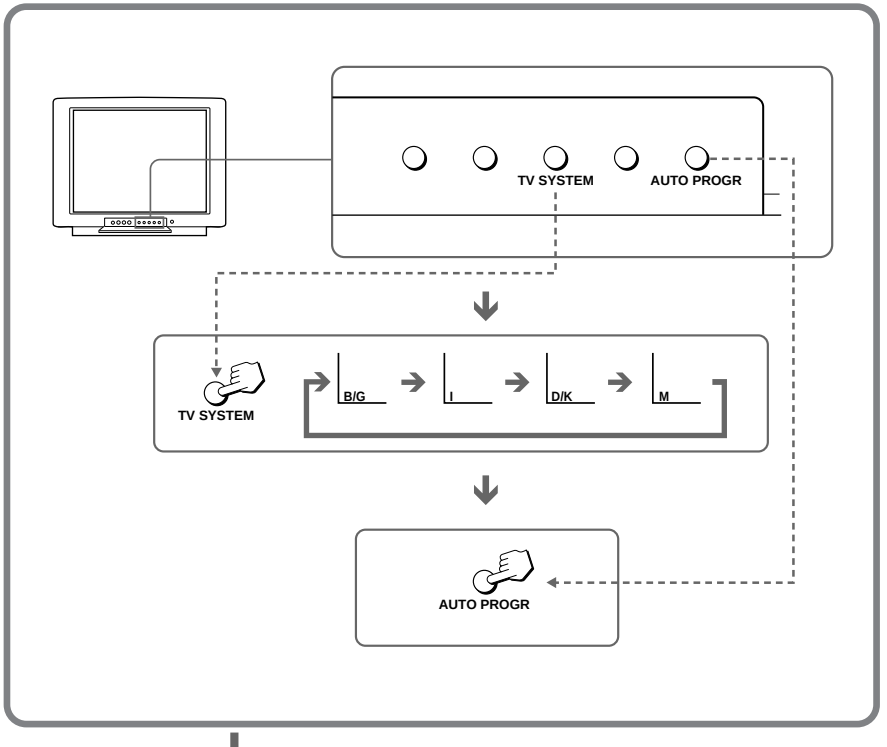
SECTION 1
GENERAL

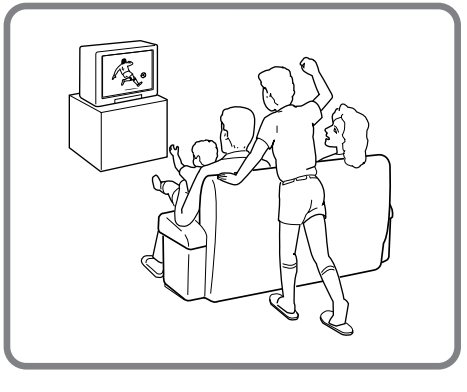
The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in this manual.

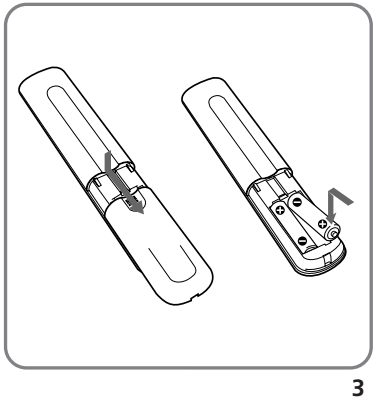








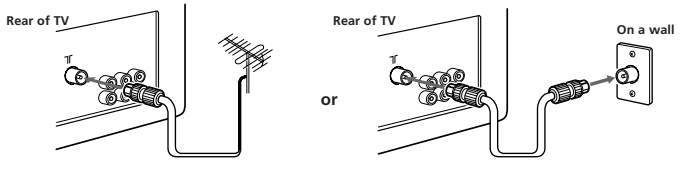




Connections

Connecting a VHF antenna or a combination VHF/UHF antenna — 75-ohm coaxial cable (round)

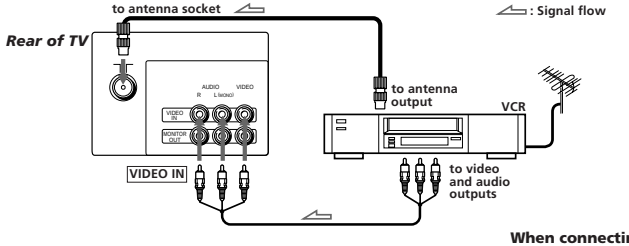
Attach an optional IEC antenna connector to the 75-ohm coaxial cable.
Plug the connector into the ⅂ (antenna) socket at the rear of the TV.



Connecting optional equipment

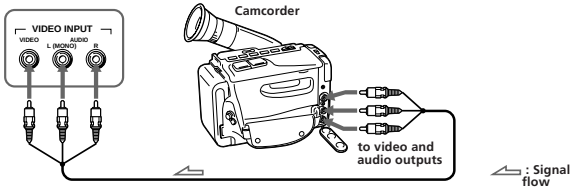
You can connect optional audio/video equipment to your TV such as a VCR, multi disc player, camcorder, video game or stereo system.

Connecting video equipment using video input jacks



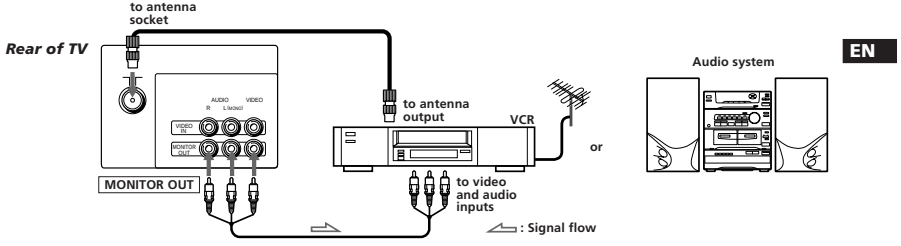
When connecting a monaural VCR
Connect the yellow plug to VIDEO and the black plug to AUDIO-L (MONO).

Front of TV



When using the video input jacks
Do not connect video equipment to the video input jacks at the front and the rear of your TV simultaneously; otherwise the picture will not be displayed properly on the screen.

Connecting audio/video equipment using MONITOR OUT jacks

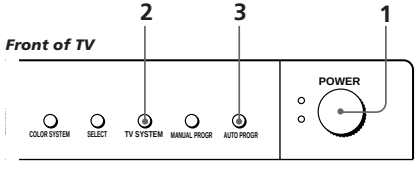


When recording through the MONITOR OUT jacks
If you change the channel or video input while recording with a VCR, the channel or video input you are recording also will be changed.

Presetting channels

Presetting channels automatically

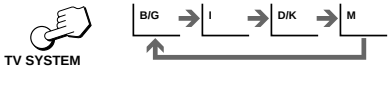
You can preset up to 80 TV channels in numerical sequence from program position 1.



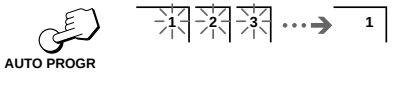
1 Press POWER.

When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

2 Press TV SYSTEM until your local TV system appears.



3 Press AUTO PROGR.



To start presetting channels automatically from the specified program position

1 Press MANUAL PROGR.
2 Press TV SYSTEM to select your local TV system.
3 Press PROGR +/– to select the program position.
4 Press AUTO PROGR.

Presetting channels manually

To change the channel for a particular program position or to receive a channel with a weak signal, preset the channel manually.

1 Press MANUAL PROGR.

2 Press PROGR +/– until the required program position appears on the screen.

3 Press TV SYSTEM until your local TV system appears.

4 Press VOLUME +/– on the TV until the required channel picture appears on the screen.

5 Press MANUAL PROGR.

If the TV system is not properly selected
The color of the picture may be poor and/or the sound may be noisy. In this case, select the appropriate TV system.

1 Press PROGR +/– to select the program position.
2 Press TV SYSTEM until the picture and sound become normal.

Notes

- If you do not know your local TV system, consult your nearest authorized service center or dealer.
- The setting of the TV SYSTEM is memorized for each program position.

Disabling program positions

By disabling unused or unwanted program positions, you can skip those positions when you press PROGR +/–.

1 Press PROGR +/– until the unused or unwanted program position appears on the screen.

2 Press MANUAL PROGR.

3 Press PIC MODE on the remote commander.

4 Press MANUAL PROGR.

To cancel the skip setting
Preset the channel manually or automatically again.

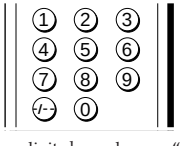
Watching the TV

1 Press POWER to turn the TV on.

When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

2 Select the TV channel you want to watch.

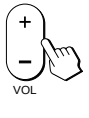
To select a channel directly
Press a number button.



To select a two-digit channel, press "-/--" before the number buttons.
For example: to select channel 25, press "-/--," and then "2" and "5."

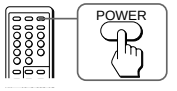
To scan through channels
Press PROGR +/– until the channel you want appears.

3 Press VOL +/– to adjust the volume.



Switching off the TV

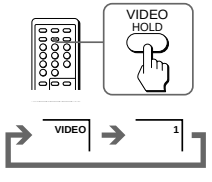
To switch off the TV temporarily, press POWER on the remote commander.



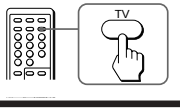
To switch off the TV completely, press POWER on the TV.
If the power on the TV is turned off in standby mode, the STANDBY indicator may remain alight for a while.

Watching the video input

Press VIDEO/HOLD.

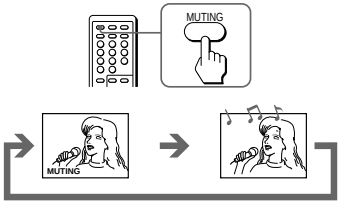


To watch TV, press TV.



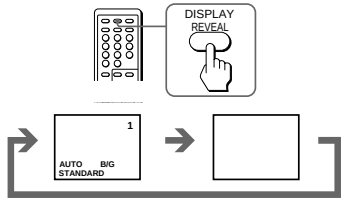
Muting the sound

Press MUTING.



Displaying on-screen information

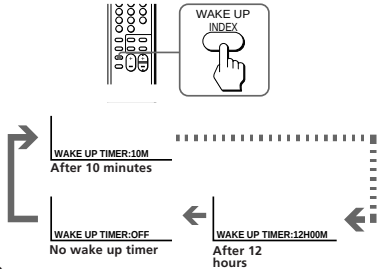
Press DISPLAY/REVEAL.
The program position, local system, and TV settings are displayed on the screen.



Setting the Wake Up Timer

You can set the TV to turn on automatically after the period of time you want.

1 Press WAKE UP/INDEX repeatedly to set the timer.
The on-screen display appears and the WAKE UP/STEREO indicator lights up.



2 If you want a particular TV program or video input to be displayed using the Wake Up Timer, select the TV program or video mode.

3 Press POWER on the remote commander or set the Sleep Timer to turn off the TV in standby mode.

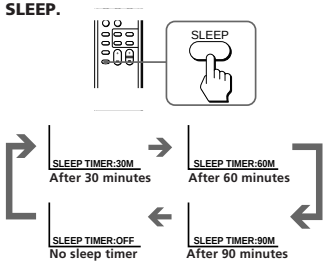
To cancel the Wake Up Timer, press WAKE UP/INDEX repeatedly until "WAKE UP TIMER: OFF" appears, or turn off the main power of the TV.

Notes
- The Wake Up Timer starts immediately after the on-screen display disappears.
- The last TV program position or video mode just before the TV turns into standby mode will appear when the TV is turned on using the Wake Up Timer.
- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up Timer, the TV automatically turns into standby mode. When you want to continue watching the TV, press any button or control on the TV or remote commander.

Setting the Sleep Timer

You can set the TV to turn off automatically after the period of time you want.

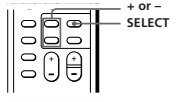
Press SLEEP.



To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP TIMER: OFF" appears, or turn the TV off.

Changing the on-screen display language

If you prefer Chinese to English, you can change the on-screen display language. You can use buttons on the remote commander or the TV.

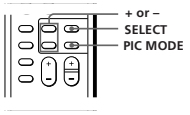


1 Press SELECT until the screen appears as follow:

2 Press + or – to select "/ / / ".

Note
- You can also use VOLUME +/– on the TV to select the on-screen display language.

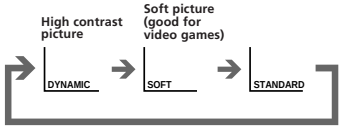
Adjusting the picture and sound



Selecting the picture mode

Press PIC MODE until the mode you want appears.

Each time you press PIC MODE, the screen changes as follows:

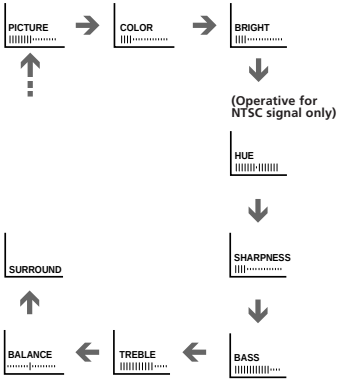


Note
- If you change the picture mode after the following adjustments, the adjustment changes in accordance with the picture mode.

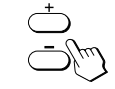
Adjusting the picture and sound settings

1 Press SELECT until the item you want to adjust appears.

Each time you press SELECT, the screen changes as follows:



2 Press + or – to adjust the item.



3 To adjust other items, repeat steps 1 and 2.

Note
- You can also use VOLUME +/– on the TV to adjust the picture and sound settings.

If the color of the picture is abnormal

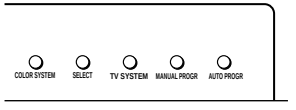
When receiving programs through the Ψ terminal: Press TV SYSTEM or COLOR SYSTEM or adjust the color setting until the color becomes normal.

Note
- Normally set COLOR SYSTEM to AUTO.

If the sound is distorted or noisy

When receiving programs through the Ψ terminal: Press TV SYSTEM until the sound becomes clear.

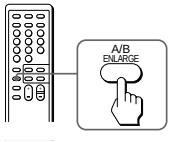
Front of TV



KV-T21MN8/T21MN81
RM-870

Selecting a stereo or bilingual program

Press A/B/ENLARGE repeatedly until you receive the sound you want.
The on-screen display changes corresponding to the selected sound and the WAKE UP/STEREO indicator also lights up.



When receiving a NICAM program

Broadcasting	On-screen display (Selected sound)
NICAM stereo	NICAM (Stereo sound) → NICAM MONO (Regular sound)
NICAM bilingual	NICAM MAIN (Main sound) → NICAM SUB (Sub sound) → NICAM MONO (Regular sound)
NICAM monaural	NICAM MAIN (Main sound) → NICAM MONO (Regular sound)

When receiving a A2 (German) program

Broadcasting	On-screen display (Selected sound)
A2 (German) stereo	STEREO (Stereo sound)
A2 (German) bilingual	STEREO MAIN (Main sound) → STEREO SUB (Sub sound)

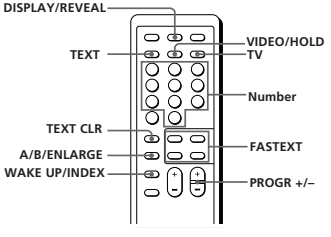
Receiving area for NICAM and A2 (German) programs

System	Receiving area
NICAM	Hong Kong, Singapore, New Zealand, etc.
A2 (German)	Australia, Malaysia, Thailand, etc.

Notes
- If the signal is very weak, the sound becomes monaural automatically.
- If the stereo sound is noisy, select "regular sound." The sound becomes monaural, however, the noise will be reduced.

Viewing Teletext

■ ***KV-T21MN81 only***



Displaying Teletext

1 Select a TV channel which carries the Teletext broadcast you want to watch.
2 Press TEXT to display the Teletext.
A Teletext page is displayed (normally the index page). If there is no Teletext broadcast, 100 is displayed at the top left corner of the screen.

To cancel the Teletext display, press TV.

Superimposing a Teletext page on the TV picture

Press TEXT.
Each time you press TEXT, the screen changes as follows:

Teletext → Teletext and TV → TV

Checking the contents of a Teletext service (INDEX)

Press WAKE UP/INDEX to display an overview of the Teletext contents and page numbers.

Using FASTEXT

This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT page is broadcasted, a color-coded menu appears at the bottom of the screen. The colors of the menu correspond to the RED, GREEN, YELLOW, and CYAN buttons on the remote commander.
Press the color button which corresponds to the color-coded menu.
The page is displayed after a few seconds.

Selecting a Teletext page

To input the three-digit page number of the Teletext page, press the number buttons.
If you make a mistake, key in the correct page number again.

To access the next or previous page, press PROGR +/–.

Holding a Teletext page (subpage)

Press VIDEO/HOLD.
The HOLD symbol "⏸" is displayed at the top left corner of the screen.

To resume normal Teletext operation, press VIDEO/HOLD again or TEXT.

Revealing concealed information

Press DISPLAY/REVEAL.
To conceal the information, press DISPLAY/REVEAL again.

Enlarging the Teletext display

Press A/B/ENLARGE.
Each time you press A/B/ENLARGE, the Teletext display changes as follows:

Enlarge upper half → Enlarge lower half → Normal size

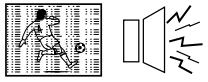
Waiting for a Teletext page while watching a TV program (TEXT CLEAR)

1 Key in the page number of the Teletext that you want to refer, then press TEXT CLR.
2 When the page number is displayed on the screen, press TEXT to switch the Teletext on.

Troubleshooting

If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.
If the problem persists, contact your nearest authorized service center or dealer.

Snowy picture
Noisy sound



➡Check the antenna.
➡Check the antenna connection on the TV and on the wall.
➡Check the TV SYSTEM setting.

Dotted lines or stripes

➡This may be caused by local interference (e.g. cars, neon signs, hair dryers, etc.). Adjust the antenna for minimum interference.

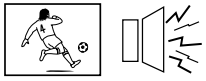
Double images or "ghosts"

➡This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.

Notes

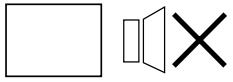
- When you switch on the TV, you may hear the "boon" sound that is caused by the demagnetization of the TV. This does not indicate a malfunction.
- The picture color may become abnormal if you change the direction of your TV. To obtain the normal picture color, press POWER on the TV to switch off the TV for five minutes and then switch it on again.
- Design and specifications are subject to change without notice.

Good picture
Noisy sound



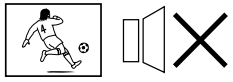
➡Check the TV SYSTEM setting.

No picture
No sound



➡Press POWER.
➡Check the antenna connection.
➡Check the VCR connections.
➡Check the power cord connection.
➡Check the standby mode.

Good picture
No sound



➡Press VOLUME +.
➡Press MUTING.
➡Press A/B/ENLARGE.

No color

➡Adjust the COLOR level in the on-screen display.
➡Check the COLOR SYSTEM setting.

TV cabinet creaks

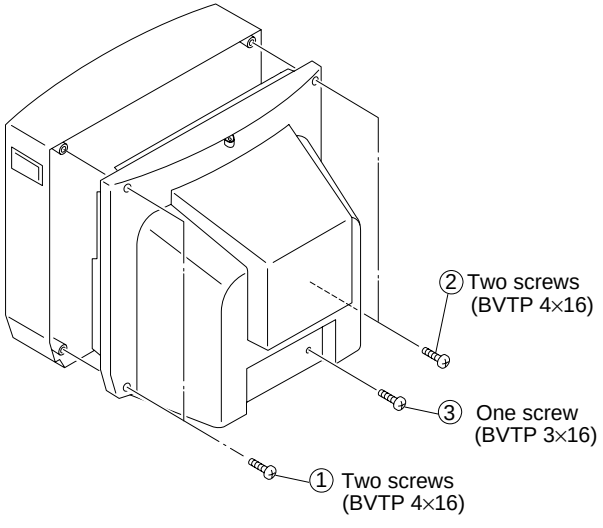
➡Even if the picture or the sound is normal, changes in the room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.

WARNING
Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

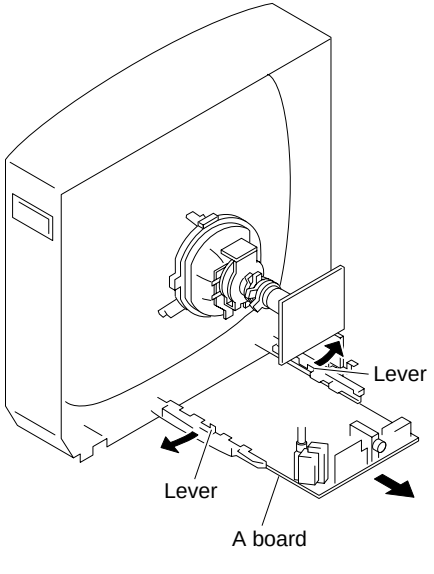
KV-T21MN8/T21MN81
RM-870

SECTION 2
DISASSEMBLY

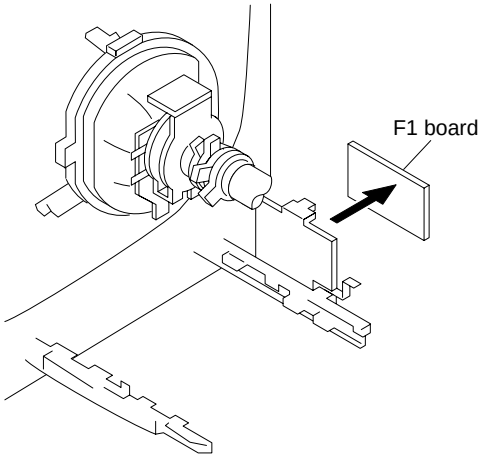
2-1. REAR COVER REMOVAL



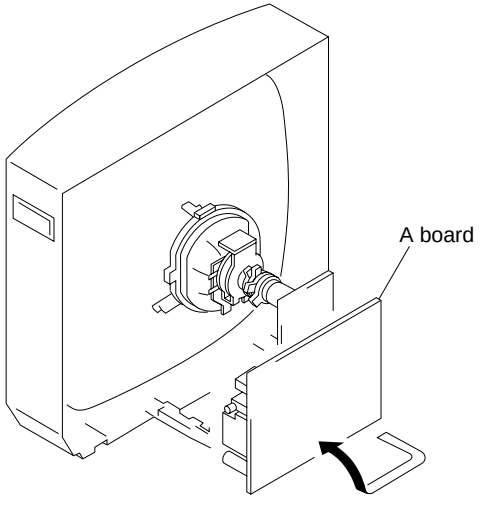
2-2. A BOARD REMOVAL



2-3. F1 BOARD REMOVAL (EXCEPT FOR KV-T21MN81)



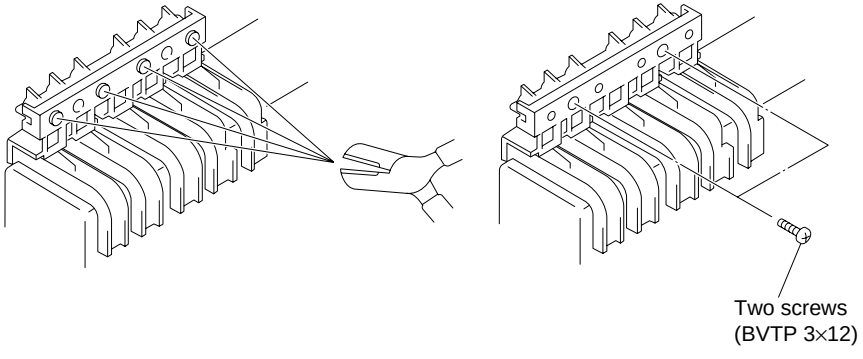
2-4. SERVICE POSITION



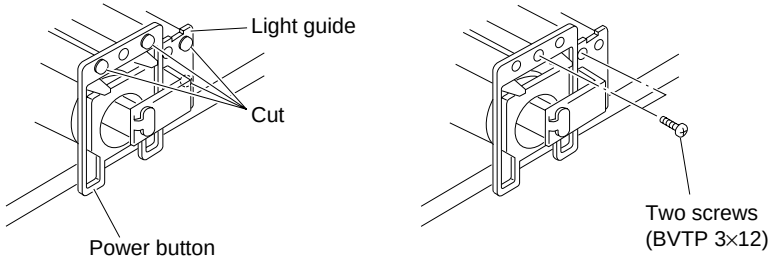
2-5. REPLACEMENT OF PARTS

For replacement of the Multi Button, Power Button and Light Guide, cut the welded portions from them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

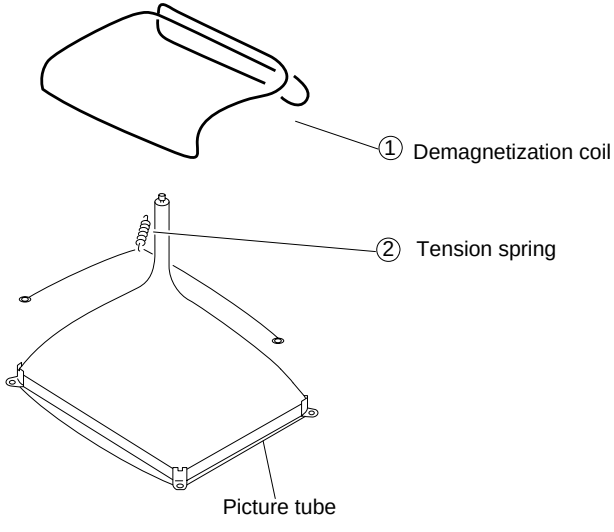
2-5-1. REPLACEMENT OF MULTI BUTTON



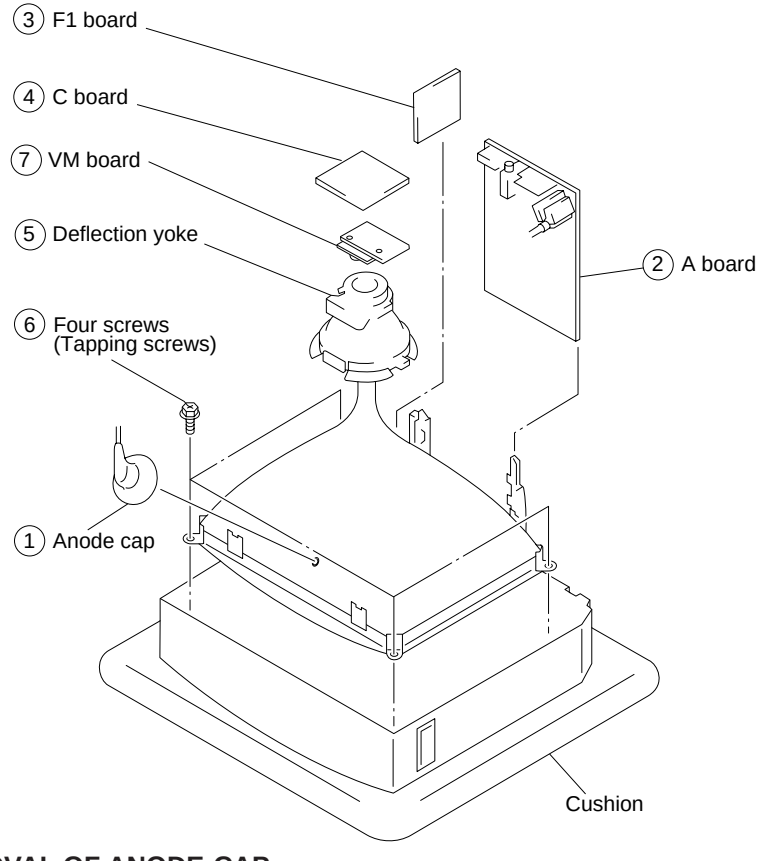
2-5-2. REPLACEMENT OF POWER BUTTON AND LIGHT GUIDE



2-6. DEMAGNETIZATION COIL REMOVAL



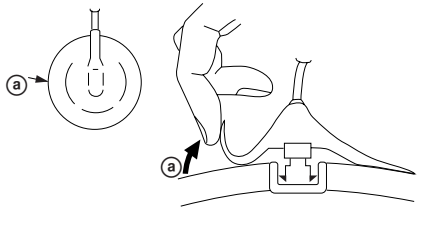
2-7. PICTURE TUBE REMOVAL



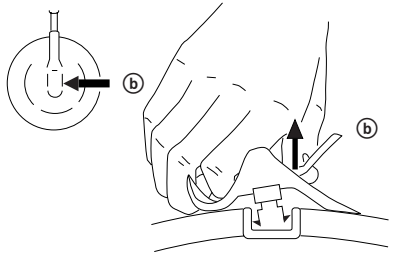
• REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

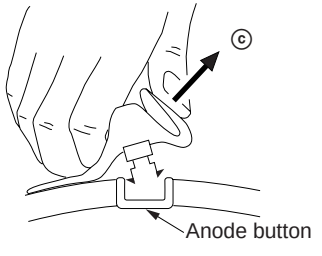
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



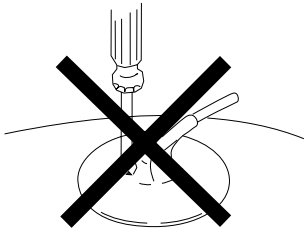
② Using a thumb press down then pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.

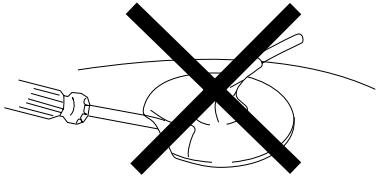


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ.

• HOW TO HANDLE AN ANODE-CAP

① Do not damage the surface of anode-caps with sharp shaped objects.
② Do not press the rubber too hard so as not to damage the inside of anode-caps. A metal fitting called the shatter-hook terminal is built into the rubber.
③ Do not turn the foot of rubber over too hard. The shatter-hook terminal will stick out or damage the rubber.





SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:
PICTURE control ..... normal
BRIGHTNESS control ..... normal

Perform the adjustments in the following order :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the power and degauss with the degausser.

3-1. BEAM LANDING

1. Input a white signal with the pattern generator.
   Contrast } normal
   Brightness }
2. Position neck assy as shown in Figure 3-1.
3. Set the pattern generator raster signal to a green raster.
4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
   (See Figures 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 3-1.)
6. Switch the raster signal to blue, then to red and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screw.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
   (See Figure 3-4.)

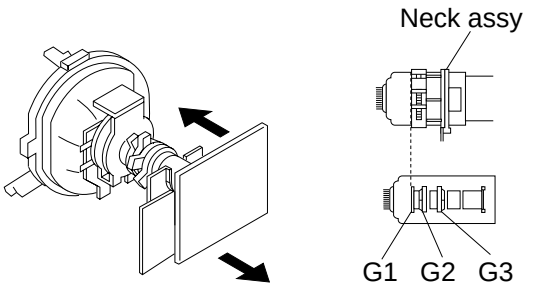


Fig. 3-1

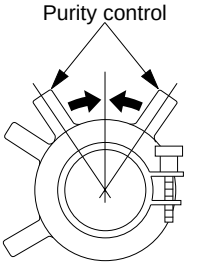


Fig. 3-2

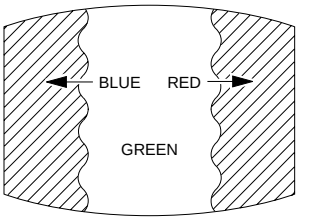


Fig. 3-3

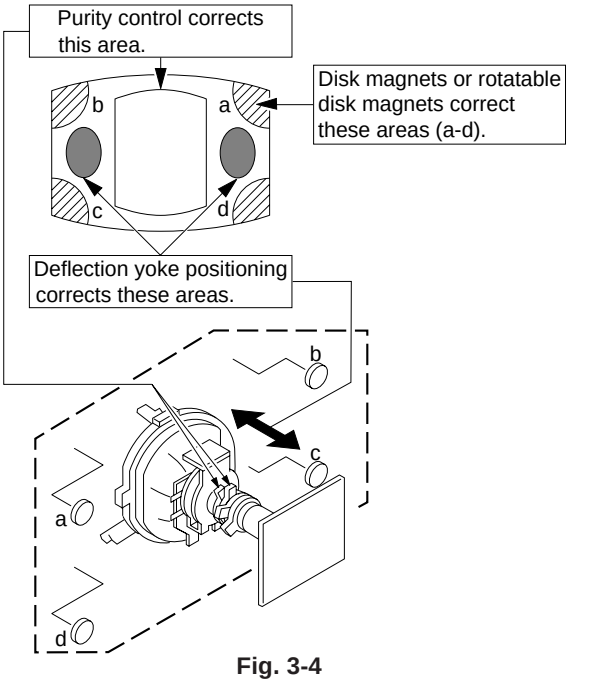


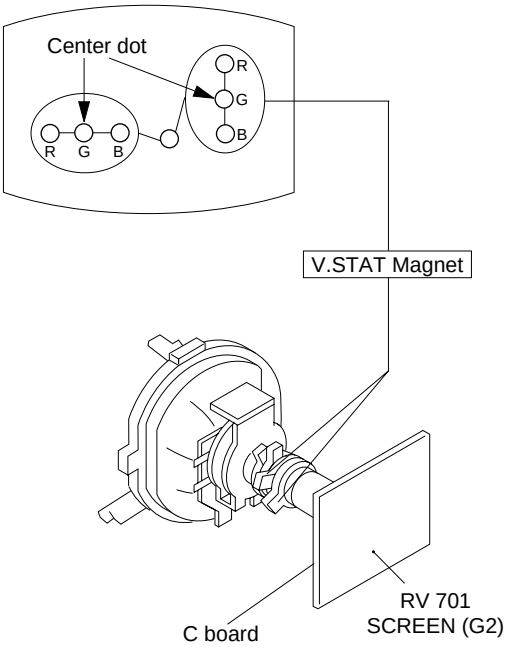
Fig. 3-4

3-2. CONVERGENCE

Preparation :

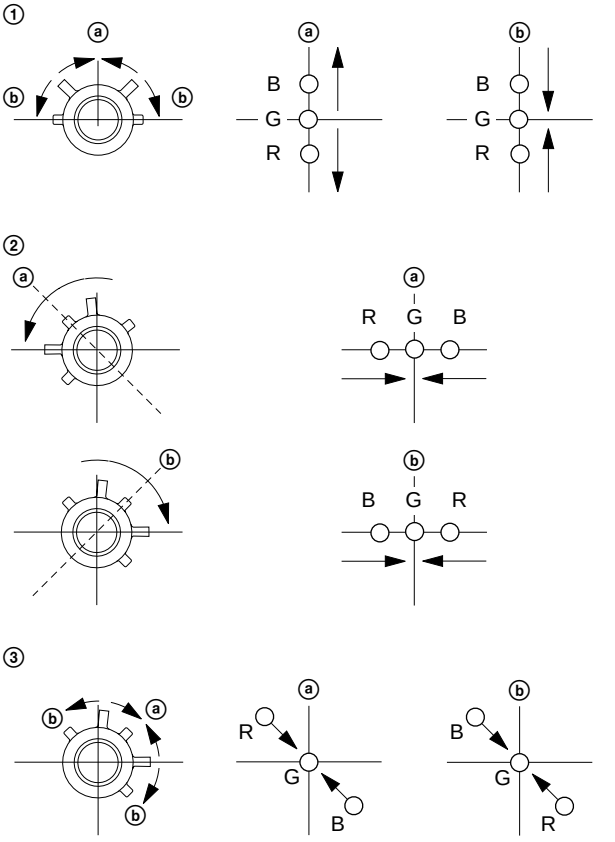
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

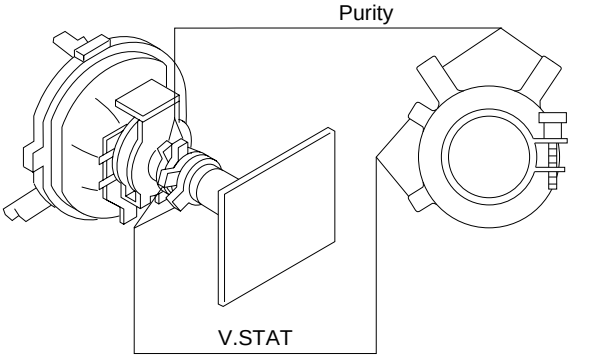
(1) Horizontal and Vertical Static Convergence



1. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving horizontally), adjust the H.STAT VR magnet so that the red, green and blue dots are on top of each other at the center of the screen.

- Operation of the V.STAT magnet.
  If the V.STAT magnet is moved in the direction of the ⓐ and ⓑ arrows, the red, green and blue dots move as shown below.



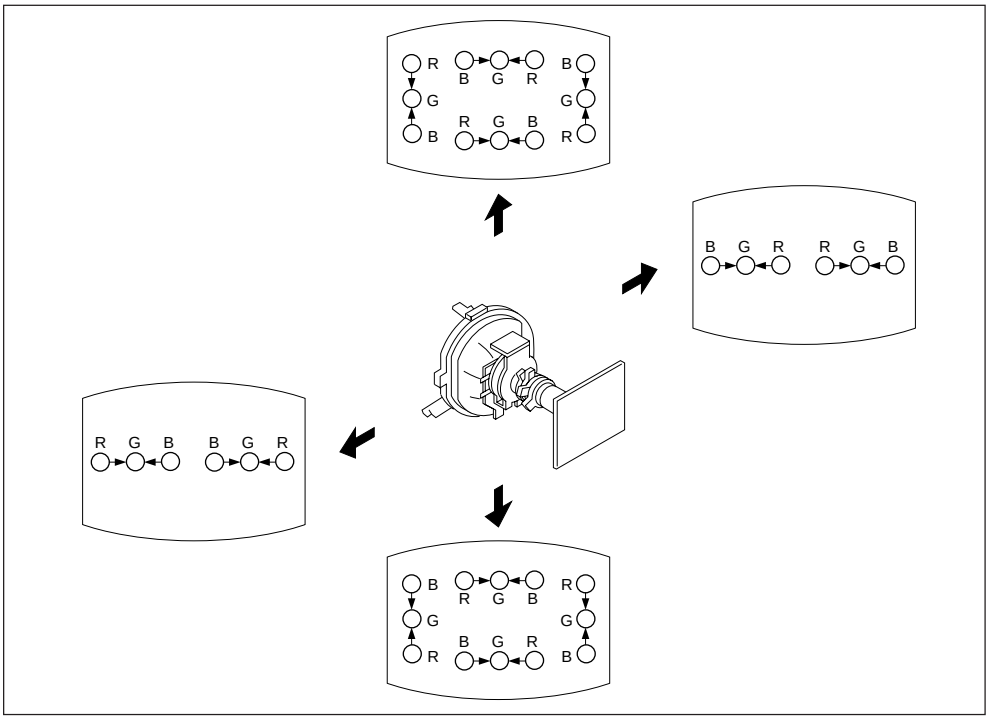


(2) Dynamic Convergence Adjustment

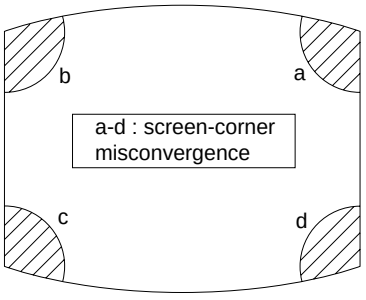
Preparation :

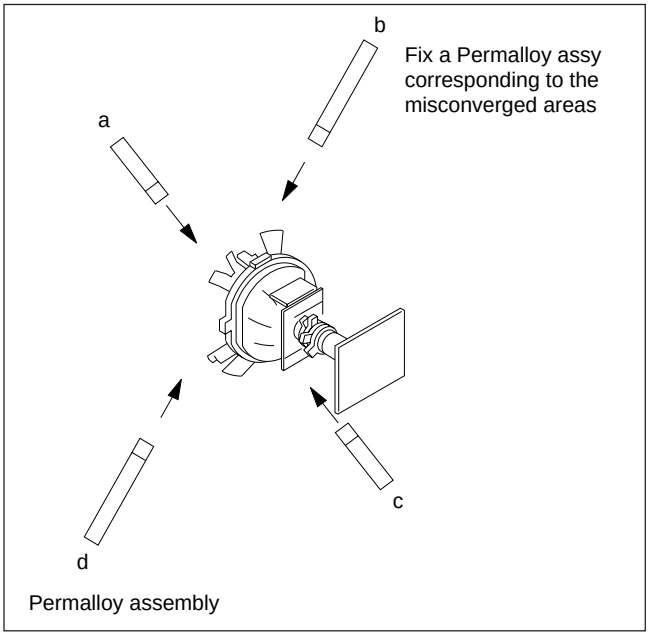
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.



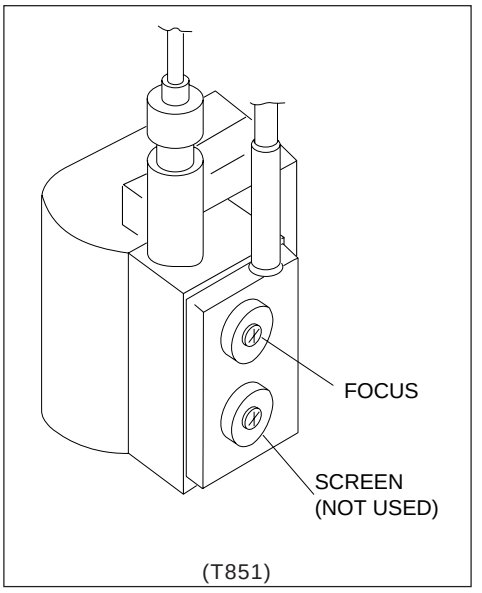
(3) Screen-corner Convergence

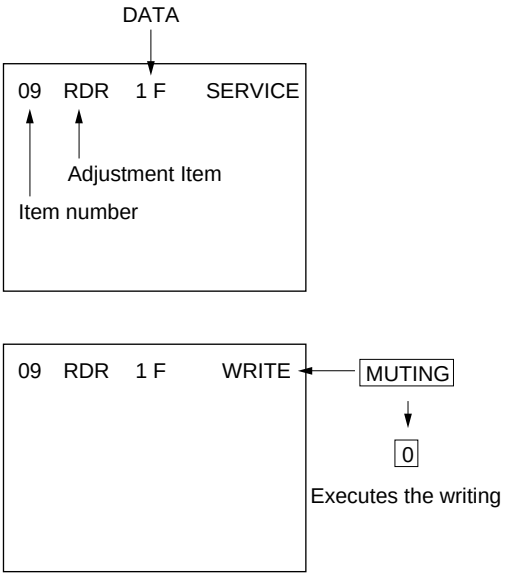




3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for the best focus.





a. AN ITEM OF ADJUSTMENT

Item number	Adjustment item	Initial DATA	Note
09	RDR	28	WHITE POINT R
0A	GDR	20	WHITE POINT G
0B	BDR	20	WHITE POINT B

b. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press POWER button on the commander) and then press POWER button again, hereupon it becomes TV mode.

c. METHOD OF WRITE FOR MEMORY

1) Set to Service Mode.
2) Press 1 (UP) and 4 (DOWN) to select an item of adjustments.
3) Press MUTING button and it will indicate WRITE on screen.
4) Press 0 button to write into memory.

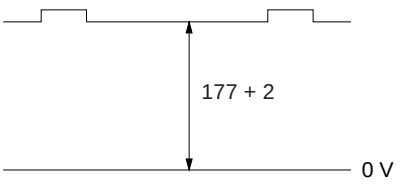
d. MEMORY WRITE CONFIRMATION METHOD

1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again to confirm adjustments were made.

3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT (RV701)

1) Set the PICTURE and BRIGHTNESS to normal.
2) Put to VIDEO input mode without signals.
3) Connect R, G and B of the C board cathode to the oscilloscope.
4) Adjust G2 (RV701) volume to the value below.



2. WHITE BALANCE ADJUSTMENTS

1) Set to Service Mode.
2) Input an entire white signal.
3) Set the PICTURE to maximum.
4) Select RDR(09) with 1 and 4 , and then set the level to 28 with 3 and 6 .
5) Select GDR(0A) and BDR(0B) with 1 and 4 and adjust the level with 3 and 6 for the best white balance.
6) Write into the memory by pressing MUTING → then 0 .

SECTION 4
SELF DIAGNOSIS FUNCTION

If no acknowledgement is returned from a device which is turned "ON", the device has a problem.
In this case, one of the LED's responding to the problem device will flicker a defined number of times.

Flickering is operated by lighting the LED's for 60ss each time.

The flickering frequency responding to each failed device is shown below.

Device	NONVOLATILE MEMORY (CAT24C04P)	—	Y/C JUNGLE (TDA8375A)	—	—	TONE CONTROL (TDA8424)
Flickering Frequency	1	—	3	—	—	6

All the devices are checked one after another from the left of the table.
If an error is found, the responding LED will start flickering.
So, if more than 1 device have failed, only the one on the left side will flicker.

SECTION 5
CIRCUIT ADJUSTMENTS

5-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-870 that comes with this unit.

Entering service mode

With the unit on standby

↓

[DISPLAY]

↓

[5]

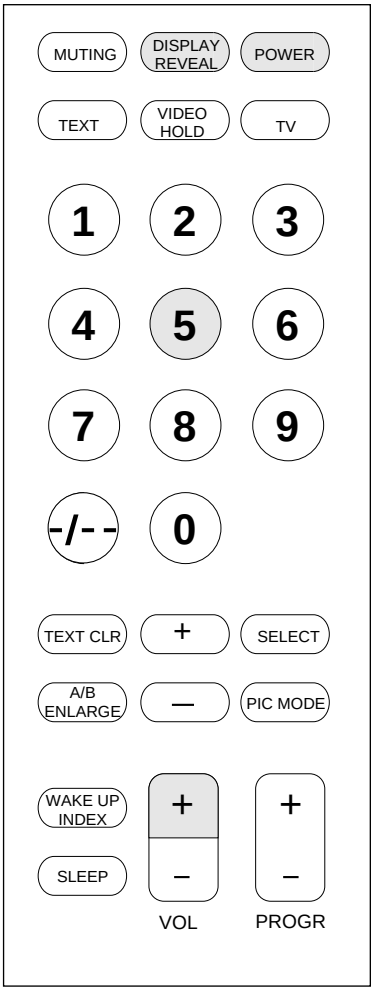
↓

[VOL (+)]

↓

[POWER]

The operation sequence puts the unit into service mode.

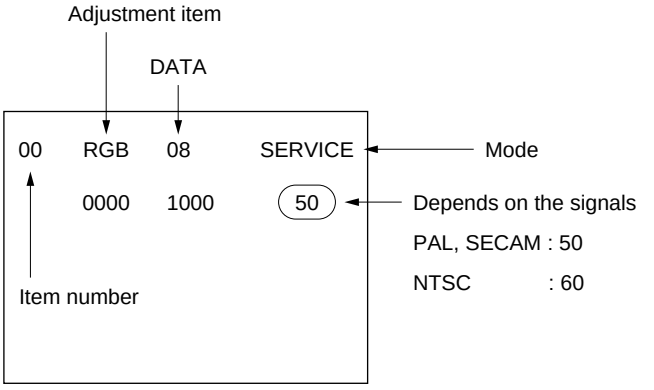


RM-870

[1], [4]	Raise/lower the service item number
[3], [6]	Raise/lower the data
[MUTING]	Writes
[0]	Executes the writing

[7], [0]	All the data becomes the values in memory
[8], [0]	All user control goes to the standard state
[5], [0]	Service data initialization (Be sure not to use usually.)
[2], [0]	Write 50Hz adjustment data to 60Hz, or vice versa.

The screen display is :



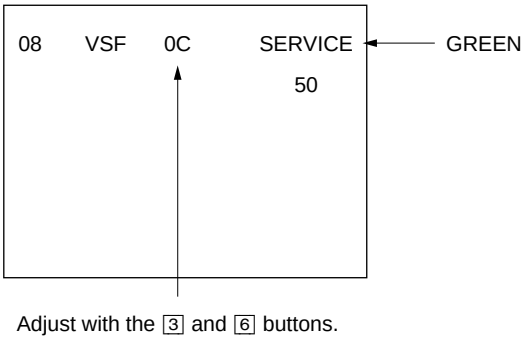
[1], [4]	Select the adjustment item.
↓	
[3], [6]	Raise/lower the data.
↓	
[MUTING]	Writes
↓	
[0]	Executes the writing.

5-2. ADJUSTMENT METHOD

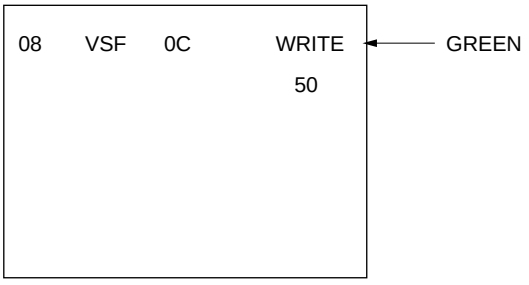
Item Number 08

This explanation uses V-SHIFT as an example.

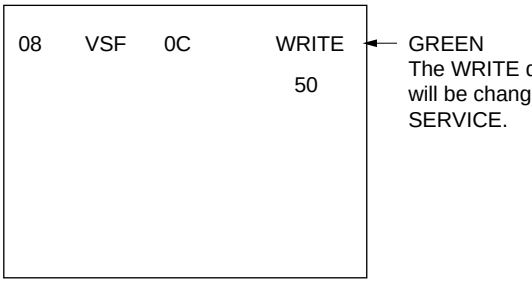
1. Select 08 V-SHIFT with the [1] and [4] buttons.
2. Raise/lower the data with the [3] and [6] buttons.
3. Select the optimum state. (The standard is 0F for PAL reception.)
4. Write with the [MUTING] button.
5. Execute the writing with the [0] button. (The WRITE display will be changed to green SERVICE.)



Adjust with the [3] and [6] buttons.



Written with the [MUTING].



Write executed with [0].

Use the same method for Items Number 00-4B. Use [1] and [4] to select the adjustment item, use [3] and [6] to adjust, write with [MUTING], then execute the write with [0].

Adjustment Item Table

Item number	Adjustment Item	Data range	Initial data	Standard data			Note	Device
00	HSF	00–3F		50: 2C	60: 33		H SHIFT	TDA8375
01	HSZ	00–3F		50: 30	60: 30		H SIZE	TDA8375
02	PAP	00–3F		50: 25	60: 25		PIN AMPLITUDE	TDA8375
03	CNP	00–3F		50: 10	60: 0C		CORNER PIN	TDA8375
04	TLT	00–3F		50: 20	60: 2D		TILT	TDA8375
05	VSL	00–3F		50: 1F	60: 1F		V SLOPE	TDA8375
06	VAP	00–3F		50: 1C	60: 1B		V AMPLITUDE	TDA8375
07	SCR	00–3F		50: 16	60: 16		S CORRECTION	TDA8375
08	VSF	00–3F		50: 15	60: 15		V SHIFT	TDA8375
09	RDR	00–3F	28				WHITE POINT R	TDA8375
0A	GDR	00–3F	20				WHITE POINT G	TDA8375
0B	BDR	00–3F	20				WHITE POINT B	TDA8375
0C	FO	00–03		TV: 00	VIDEO: 00	TEXT: 01	Ø-1 TIME CONSTANT	TDA8375
0D	AGC	00–3F	30				AGC TAKE OVER	TDA8375
0E	VSW	00–01		TV: 00	VIDEO: 01	TEXT: 00	VIDEO MUTE	TDA8375
0F	FOR	00–03	03				FORCED FIELD FREQ.	TDA8375
10	DL	00–01	00				INTERLACE	TDA8375
11	POC	00–01	00				SYNCHRO MODE FIX	TDA8375
12	VID	00–01	00				VIDEO IDENT MODE	TDA8375
13	HCO	00–01	00				EHT TRACKING MODE	TDA8375
14	EVG	00–01	00				ENABLE V GUARD	TDA8375
15	SBL	00–01	00				SERVICE BLANKING	TDA8375
16	PRD	00–01	00				OVER-VOLTAGE INPUT	TDA8375
17	COR	00–01	00				NOISE CORING PEAK	TDA8375
18	PMX	00–3F	2B				PICTURE MAX DATA	TDA8375
19	PMI	00–3F	04				PICTURE MIN DATA	TDA8375
1A	SBR	00–7F	4B				SUB-BRIGHTNESS	TDA8375
1B	SHU	00–0F	06				SUB-HUE	TDA8375
1C	SSH	00–03	01	TV: 01	VIDEO: 02		SUB-SHARPNESS	TDA8375
1D	SC1	00–3F	1F	50: 26	60: 29		SUB-COLOR LOWER	TDA8375
1E	SC2	00–3F	0B	50: 0C	60: 0F		SUB-COLOR HIGHER	TDA8375
1F	AIP	00–7F	3F				ADJUSTMENT IF PLL	TDA8375
20	VZM	00–3F	19				VERTICAL ZOOM	TDA8375

Adjustment Item Table

Item number	Adjustment Item	Data range	Initial data	Standard data	Note	Device
21	FAW	00–FF	08		NICAM FAW THRESH	MSP3410
22	CTM	00–FF	08		NICAM ERROR BIT (MONO)	MSP3410
23	CTN	00–FF	50		NICAM ERROR BIT (NICAM)	MSP3410
24	WCD	00–FF	0A		W. G. CHANGE DATA	MSP3410
25	WST	00–FF	15		W. G. STEREO CUT POINT	MSP3410
26	WTM	00–FF	50		W. G. TIMER CHANGE	MSP3410
27	WBT	00–FF	EA		W. G. BILINGUAL CUT POINT	MSP3410
28	ACG	00–01	01		AGC AUTO/CONSTANT	MSP3410
29	CDB	00–3F	28		AGC GAIN CONSTANT	MSP3410
2A	FGP	00–7F	24		FM (BG, I, DK) PRESCALE	MSP3410
2B	FMP	00–7F	40		FM (M) PRESCALE	MSP3410
2C	WGP	00–7F	3C		W. G. PRESCALE	MSP3410
2D	NIP	00–7F	7F		NICAM PLESCALE	MSP3410
2E	CRM	00–01	00		CARRIER MUTE	MSP3410
2F	CML	00–03	00		CARRIER MUTE LEVEL	MSP3410
30	ACO	00–01	01		AUDIO CLOCK OUT	MSP3410
31	WAC	00–01	01		W. G. AGREEMENT COUNT	MSP3410
32	DLY	00–FF	30		STEREO SEARCH DELAY	MSP3410
33	DLG	00–FF	10		INTERVAL OF ID CHECK	MSP3410
34	TXP	00–0F	07		TEXT PICTURE	SAA5281
35	MXP	00–0F	0A		TEXT MIX MODE PICTURE	SAA5281
36	BKP	00–3F	00		BLK OFF PICTURE	µ-CON
37	HBL	00–3F	25		H BLK LEFT WIDTH	µ-CON
38	HBR	00–3F	20		H BLK RIGHT WIDTH	µ-CON
39	VBH	00–7F	00		V BLK HIGHT WIDTH	µ-CON
3A	VBL	00–FF	FF		V BLK LOW WIDTH	µ-CON
3B	ODL	00–FF	10		POWER ON DELAY	µ-CON
3C	OFR	00–0F	00		STBY → ON RGB OUT	µ-CON
3D	OFM	00–0F	00		MAIN POWER RGB OUT	µ-CON
3E	OSH	00–3F	0A		OSD POSITION H	µ-CON
3F	DKS	00–01	00		D/K NICAM	µ-CON
40	MUT	00–01	00		NO SYNC. MUTE	µ-CON
41	DWZ	00–01	00		DISEBLE WIDEZOOM	µ-CON
42	ABL	00–01	00		BRIGHT ABL	µ-CON
43	DTV	00–01	00		DISABLE TV SYSTEM KEY	µ-CON
44	SCM	00–01	00		SECAM TRAP ACTIVE	µ-CON
45	ROC	00–0F	07		ROTATION CENTER	µ-CON
46	ROS	00–07	03		ROTATION STEP WIDTH	µ-CON
47	DVM	00–01	00		DISABLE VM MUTE	µ-CON
48	FBT	00–01	01		C/M FOR FBT LAYER SHORT	µ-CON
49	OP0	00–FF	40		OPTION 0	µ-CON
4A	OP1	00–FF	07		OPTION 1	µ-CON
4B	OP2	00–FF	00		OPTION 2	µ-CON

NOTE

- Standard Data: Those are the standard data values written on the microprocessor. Therefore, the data values of the modes are stored respectively in the memory.
  In case of a device replacement, adjustment by rewriting the data value is necessary for some items.
- 50 ..... 50 Hz data
- 60 ..... 60 Hz data
- Standard data listed on the adjustment item table are reference values, therefore it is different for every model.

ITEM INFORMATION

- 10. DL: TV/MIX Mode 0=Interlace 1=Non interlace, TEXT Mode 0=Non interlace 1=Interlace
- 42. ABL: Bright ABL ON/OFF ON=1 OFF=0
- 49. OP0, • 4A. OP1 • 4B. OP2 :

  Input data are different according to models.
  AV INPUT : 00 → NO MODEL, 01 → MONO, CXA1315, 10/11 → STEREO, TDA8424
  TV System : 00 → Multi model, 01 → B/G, 10 → D/K, I, 11 → B/G, D/K
  NTSC, SECAM, Chin
  Shrp : Dynamic Mode @ 1 → Sharpness 50%, 0 → Sharpness 70%.
  VM Operation : 0 → OFF, 1 → ON

No. 49 OP0 * Input data are different according to models

Item	TILT	AV Input		Sharp 50%	Remote Preset	Auto Program	Video Text	Reserved
KV-T21MN8	0	1	0	0	0	1	0	0
KV-T21MN81	0	1	0	0	1	1	0	0

No. 4A OP1

Item	Wide	Tilt	–	TV System		NT3.58	SECAM	Chinese
KV-T21MN8	0	0	0	0	0	1	1	1
KV-T21MN81	0	0	0	0	0	1	1	1

No. 4B OP2

Item	–	–	–	–	High Dev.	100 Prg	–	S. Video
KV-T21MN8	0	0	0	0	0	1	0	0
KV-T21MN81	0	0	0	0	0	1	0	0

5-3. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

1. Enter to Service Mode.

2. Press commander buttons [5] and [0] (Data Initialize), and [2] and [0] (Data Copy) to initialize the data.

3. Call each item number, and check if the respective screen shows the normal picture.
   In case some items are not well-adjusted, give them fine adjustment.
   Write the data per each item number ([MUTING] + [0]).

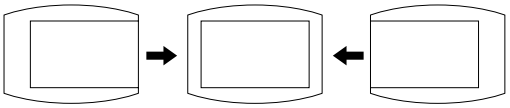
4. Select item numbers “49” (OP0), “4A” (OP1) and “4B” (OP2) and respectively set the bit per model with command buttons [3] and [6].

5. Press commander buttons [8] and [0] (Test Normal) to return to the data that was set on the shipment from the factory.
   (= Cancel Service Mode.)

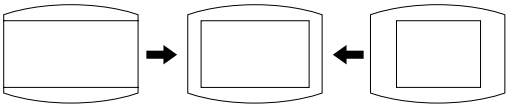
5-4. PICTURE DISTORTION ADJUSTMENT

Item Number 00 – 08

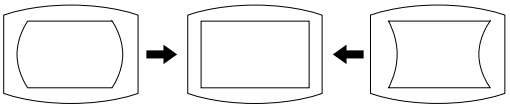
00 HSF (H SHIFT)



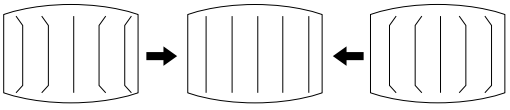
01 HSZ (H SIZE)



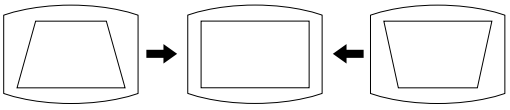
02 PAP (PIN AMPLITUDE)



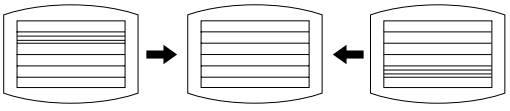
03 CNP (CORNER PIN)



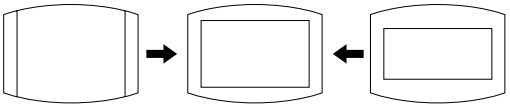
04 TLT (TILT)



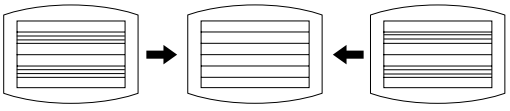
05 VSL (V SLOPE)



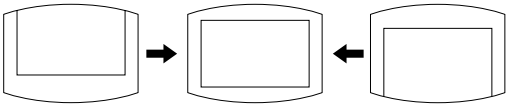
06 VAP (V AMPLITUDE)



07 SCR (S CORRECTION)



08 VSF (V SHIFT)



MEMO

KV-T21MN8/T21MN81
RM-870

SECTION 7
EXPLODED VIEW

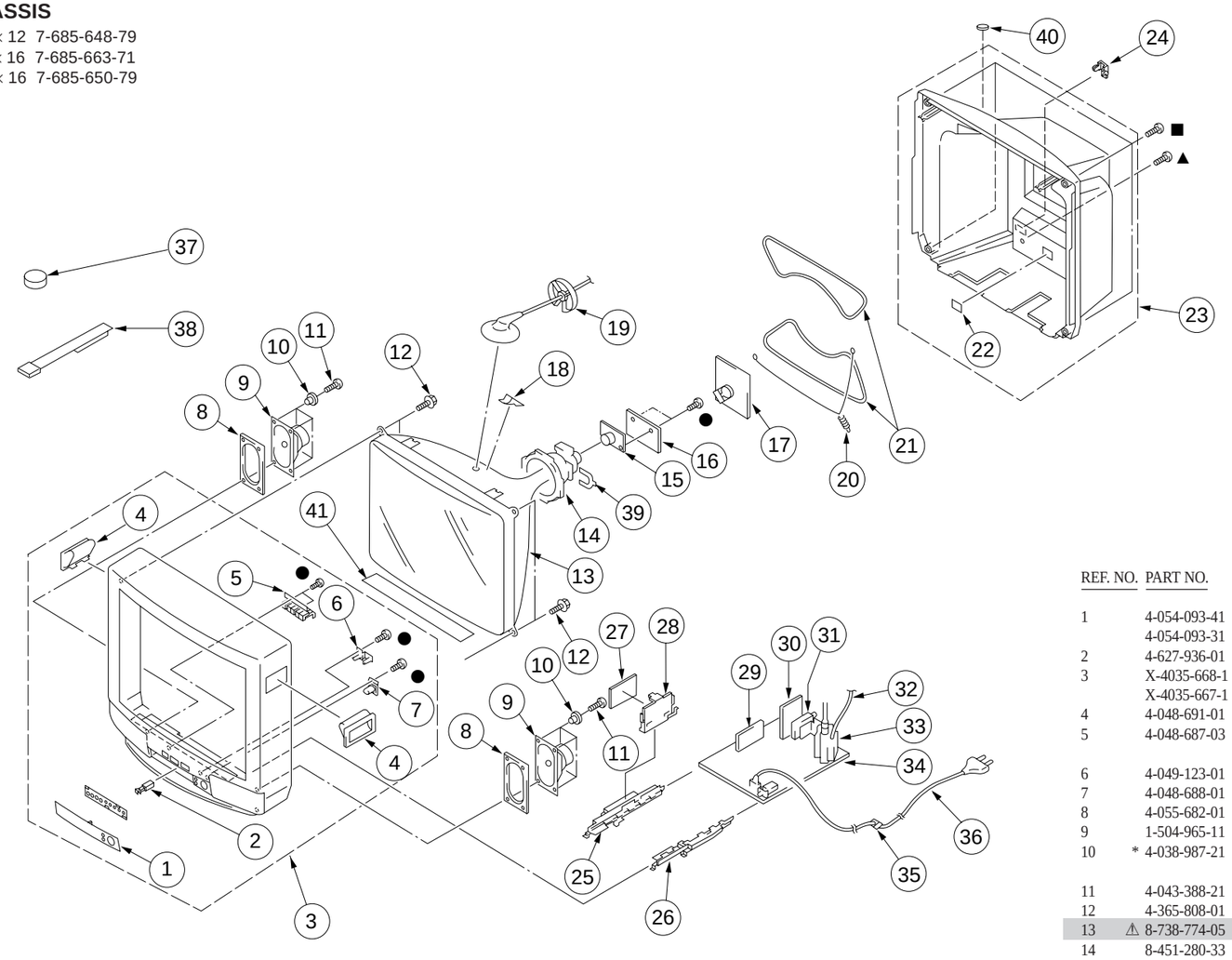
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. CHASSIS

●: BVTP3 × 12 7-685-648-79
■: BVTP4 × 16 7-685-663-71
▲: BVTP3 × 16 7-685-650-79



REF. NO.		PART NO.	DESCRIPTION	REMARK
1		4-054-093-41	DOOR, CONTROL (KV-T21MN8)	
		4-054-093-31	DOOR, CONTROL (KV-T21MN81)	
2		4-627-936-01	LOCK, MINIATURE SIDE	
3		X-4035-668-1	BEZNET ASSY (KV-T21MN8)	1, 2, 4-7
		X-4035-667-1	BEZNET ASSY (KV-T21MN81)	1, 2, 4-7
4		4-048-691-01	HANDLE	
5		4-048-687-03	BUTTON, MULTI	
6		4-049-123-01	GUIDE, LIGHT	
7		4-048-688-01	BUTTON, POWER	
8		4-055-682-01	CUSHION, SP	
9		1-504-965-11	SPEAKER (12X5CM)	
10	*	4-038-987-21	CUSHION, SPEAKER	
11		4-043-388-21	SCREW, STEP TAPPING	
12		4-365-808-01	SCREW (5), TAPPING	
13	⚠	8-738-774-05	PICTURE TUBE (A51JUH71X)	
14		8-451-280-33	DEFLECTION YOKE (Y21PXA2) (KV-T21MN8)	
		8-451-280-81	DEFLECTION YOKE (Y21PXA2-S3) (KV-T21MN81)	
15		1-452-509-51	NECK ASSY, CRT (NA308)	
16	*	A-1342-395-A	VM BOARD, BOARD	
17	*	A-1331-577-A	C BOARD, COMPLETE	
18		4-060-267-01	SPACER, DY	
19	*	4-047-349-01	HOLDER, HV CABLE	
20		4-369-318-81	SPRING, TENSION	
21	⚠	1-409-942-11	COIL, DEMAGNETIZATION	
22		4-054-094-01	SHEET, BLIND	

REF. NO.		PART NO.	DESCRIPTION	REMARK
23	⚠	X-4033-682-1	COVER ASSY, REAR	22
24		4-049-130-01	CLAMPER, CORD	
25	*	4-048-690-02	RAIL (L), GUIDE	
26	*	4-048-689-02	RAIL (R), GUIDE	
27	*	A-1241-325-A	F1 BOARD, COMPLETE (KV-T21MN8 ONLY)	
28	*	4-049-158-01	BRACKET, F1 PC BOARD (KV-T21MN8 ONLY)	
29	*	A-1347-117-A	V1 BOARD, COMPLETE (KV-T21MN81 ONLY)	
30	*	A-1297-751-A	A3 BOARD, COMPLETE	
31	⚠	8-598-323-30	TUNER, VSS BT-AG401 (KV-T21MN8)	
		8-598-323-30	TUNER, VSS BT-AG401 (KV-T21MN81)	
32	⚠	1-900-700-05	LEAD ASSY, FOCUS	
33	⚠	1-453-193-21	TRANSFORMER ASSY, FLYBACK (NX-1742//M3A)	
34	*	A-1298-597-A	A BOARD, COMPLETE (KV-T21MN8)	
	*	A-1298-596-A	A BOARD, COMPLETE (KV-T21MN81)	
35	⚠	4-389-778-11	HOLDER, AC CORD	
36	⚠	1-769-609-21	CORD, POWER (WITH CONNECTOR) (KV-T21MN8)	
	⚠	1-574-062-61	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-T21MN81)	
37		1-452-032-00	MAGNET,DISC	
38		X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
39		1-452-277-00	MAGNET, BMC	
40		4-038-462-01	CAP, ANTENNA	
41		4-372-556-31	SHEET, BLOTTING	

SECTION 8
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

REF.NO.	PART NO.	DESCRIPTION			REMARK
*	A-1298-597-A	A BOARD, COMPLETE (KV-T21MN8)			
		**********			
*	A-1298-596-A	A BOARD, COMPLETE (KV-T21MN81)			
		**********			
	1-533-223-11	CLIP, FUSE (KV-T21MN81 ONLY)			
*	1-580-798-11	CONNECTOR PIN (DY) 6P			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C001	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
C002	1-126-965-11	ELECT	22MF	20%	50V
C003	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C004	1-126-961-11	ELECT	2.2MF	20%	50V
C007	1-124-902-00	ELECT	0.47MF	20%	50V
C008	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C009	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C010	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C011	1-104-664-11	ELECT	47MF	20%	16V
C012	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C013	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C014	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C015	1-101-884-00	CERAMIC	56PF	5%	50V
C016	1-101-884-00	CERAMIC	56PF	5%	50V
C017	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C018	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C019	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C020	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C021	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C022	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C023	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C024	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C025	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C026	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C027	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C028	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C029	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C034	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C035	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C036	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C037	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C038	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C040	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C042	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C044	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C045	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C046	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C047	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C048	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C049	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C050	1-124-903-11	ELECT	1MF	20%	50V
C051	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C052	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C053	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C054	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C055	1-126-941-11	ELECT	470MF	20%	16V
C056	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C057	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C058	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C059	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C060	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C061	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C072	1-126-941-11	ELECT	470MF	20%	16V
C074	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C101	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C103	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C105	1-104-665-11	ELECT	100MF	20%	16V
C106	1-124-907-11	ELECT	10MF	20%	50V
C108	1-126-942-61	ELECT	1000MF	20%	16V
C109	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C110	1-136-165-00	FILM	0.1MF	5%	50V
C111	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C114	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C115	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C116	1-136-165-00	FILM	0.1MF	5%	50V
C117	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C118	1-126-965-11	ELECT	22MF	20%	50V
C119	1-163-059-00	CERAMIC CHIP	0.01MF		50V
C120	1-130-493-00	MYLAR	0.068MF	5%	50V
C121	1-130-493-00	MYLAR	0.068MF	5%	50V
C122	1-104-665-11	ELECT	100MF	20%	16V
C124	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C125	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C127	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C128	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C132	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C201	1-126-960-11	ELECT	1MF	20%	50V
C202	1-126-933-11	ELECT (KV-T21MN8)	100MF	20%	16V
C202	1-104-665-11	ELECT (KV-T21MN81)	100MF	20%	16V
C203	1-126-960-11	ELECT	1MF	20%	50V
C204	1-126-933-11	ELECT (KV-T21MN8)	100MF	20%	16V
C204	1-104-665-11	ELECT (KV-T21MN81)	100MF	20%	16V
C205	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C206	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C207	1-126-961-11	ELECT	2.2MF	20%	50V

KV-T21MN8/T21MN81
RM-870

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REF. NO.	PART NO.	DESCRIPTION			REMARK
C208	1-126-961-11	ELECT	2.2MF	20%	50V
C209	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V
C210	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C211	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C233	1-126-967-11	ELECT	47MF	20%	16V
C234	1-104-664-11	ELECT	47MF	20%	16V
C235	1-104-665-11	ELECT	100MF	20%	16V
C236	1-126-968-11	ELECT	100MF	20%	35V
C237	1-104-665-11	ELECT	100MF	20%	16V
C238	1-137-188-51	FILM	0.15MF	5%	50V
C239	1-126-933-11	ELECT (KV-T21MN8)	100MF	20%	16V
C239	1-104-665-11	ELECT (KV-T21MN81)	100MF	20%	16V
C240	1-137-188-51	FILM	0.15MF	5%	50V
C241	1-124-557-11	ELECT	1000MF	20%	25V
C242	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C243	1-124-907-11	ELECT	10MF	20%	50V
C244	1-124-557-11	ELECT	1000MF	20%	25V
C246	1-128-551-11	ELECT	22MF	20%	25V
C247	1-126-942-61	ELECT	1000MF	20%	25V
C253	1-104-665-11	ELECT	100MF	20%	16V
C257	1-136-169-00	FILM	0.22MF	5%	50V
C258	1-136-169-00	FILM	0.22MF	5%	50V
C300	1-104-664-11	ELECT	47MF	20%	16V
C304	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C306	1-164-004-11	CERAMIC CHIP (KV-T21MN8)	0.1MF	10%	25V
C306	1-216-295-91	SHORT	0 (KV-T21MN81)		
C307	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C308	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C309	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C310	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C311	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C312	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C313	1-104-665-11	ELECT	100MF	20%	16V
C314	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C315	1-165-320-11	CERAMIC CHIP	0.47MF	10%	16V
C316	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C319	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C321	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C322	1-216-295-91	SHORT	0		
C323	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C324	1-115-565-11	CERAMIC CHIP	2.2MF	10%	10V
C325	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C326	1-163-095-00	CERAMIC CHIP	12PF	5%	50V
C327	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C328	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C329	1-163-016-00	CERAMIC CHIP	0.0039MF	10%	50V
C330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C331	1-124-907-11	ELECT	10MF	20%	50V
C332	1-136-165-00	FILM	0.1MF	5%	50V
C333	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C334	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C335	1-102-973-00	CERAMIC	100PF	5%	50V
C336	1-124-907-11	ELECT	10MF	20%	50V
C337	1-104-665-11	ELECT	100MF	20%	16V
C338	1-165-320-11	CERAMIC CHIP	0.47MF	10%	16V
C339	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C340	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C341	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C342	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C344	1-124-907-11	ELECT	10MF	20%	50V
C349	1-124-907-11	ELECT	10MF	20%	50V
C350	1-126-967-11	ELECT	47MF	20%	16V
C351	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C352	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C358	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C359	1-104-665-11	ELECT	100MF	20%	16V
C361	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C362	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C367	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C368	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C369	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C370	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C374	1-124-910-11	ELECT	47MF	20%	50V
C375	1-124-910-11	ELECT	47MF	20%	50V
C376	1-164-005-11	CERAMIC CHIP (KV-T21MN81 ONLY)	0.47MF		25V
C401	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C402	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C403	1-126-965-11	ELECT	22MF	20%	50V
C404	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C405	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C406	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C407	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C408	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C409	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C410	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C411	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C412	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C413	1-104-665-11	ELECT	100MF	20%	16V
C414	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C415	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C416	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C417	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C418	1-216-295-91	SHORT	0		
C419	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C420	1-104-664-11	ELECT	47MF	20%	16V
C422	1-216-295-91	SHORT	0		
C423	1-216-295-91	SHORT	0		
C424	1-216-295-91	SHORT	0		
C425	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C501	1-102-228-00	CERAMIC	470PF	10%	500V
C523	1-104-665-11	ELECT	100MF	20%	16V
C548	1-106-220-00	MYLAR	0.1MF	10%	100V
C551	1-126-968-11	ELECT	100MF	20%	35V
C552	1-126-968-11	ELECT	100MF	20%	35V
C553	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V
C554	1-102-244-00	CERAMIC (KV-T21MN8)	220PF	10%	500V
C554	1-102-228-00	CERAMIC (KV-T21MN81)	470PF	10%	500V
C555	1-101-804-00	CERAMIC	10PF	5%	500V
C562	1-104-665-11	ELECT	100MF	20%	16V
C602	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C603	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C604	1-117-752-11	ELECT(BLOCK)	330MF	20%	450V
C605	1-161-830-00	CERAMIC	0.0047MF	99%	500V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF. NO.		PART NO.	DESCRIPTION			REMARK
C606		1-161-830-00	CERAMIC	0.0047MF	99%	500V
C607		1-161-830-00	CERAMIC	0.0047MF	99%	500V
C608		1-104-332-11	CERAMIC	470PF	10%	2KV
C609		1-123-024-21	ELECT	33MF		160V
C610		1-126-943-11	ELECT	2200MF	20%	25V
C611	⚠	1-113-900-51	CERAMIC	470PF	10%	250V
C612		1-102-228-00	CERAMIC	470PF	10%	500V
C613		1-102-824-00	CERAMIC	470PF	5%	50V
C614		1-126-943-11	ELECT	2200MF	20%	25V
C616		1-102-228-00	CERAMIC	470PF	10%	500V
C618		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C619		1-162-116-00	CERAMIC	680PF	10%	2KV
C621	⚠	1-104-705-51	FILM	0.1MF	20%	250V
C622		1-106-383-00	MYLAR	0.047MF	10%	200V
C623		1-104-666-11	ELECT	220MF	20%	16V
C624		1-126-942-61	ELECT	1000MF	20%	16V
C625		1-102-074-00	CERAMIC	0.001MF	10%	50V
C627		1-162-116-00	CERAMIC	680PF	10%	2KV
C628		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C630	⚠	1-113-900-51	CERAMIC	470PF	10%	250V
C631		1-161-830-00	CERAMIC	0.0047MF	99%	500V
C632	⚠	1-113-900-51	CERAMIC	470PF	10%	250V
C633		1-161-754-00	CERAMIC	0.001MF	10%	3KV
C634		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C801		1-123-024-21	ELECT	33MF		160V
C802		1-107-364-11	MYLAR	0.01MF	10%	200V
C804		1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C805		1-102-244-00	CERAMIC	220PF	10%	500V
C806		1-124-903-11	ELECT	1MF	20%	50V
C807		1-136-569-11	FILM	1.2MF	5%	200V
C808		1-129-746-00	FILM	0.039MF	5%	400V
C809		1-162-115-00	CERAMIC	330PF	10%	2KV
C810		1-106-365-00	MYLAR	0.0082MF	99%	200V
C811		1-162-318-11	CERAMIC	0.001MF	10%	500V
C812		1-136-081-00	FILM	0.012MF	3%	2KV
C816		1-107-636-11	ELECT	10MF	20%	160V
C820		1-161-754-00	CERAMIC	0.001MF	10%	2KV
C821		1-104-999-11	MYLAR	0.1MF	10%	200V
C822		1-136-111-00	FILM	1MF	5%	200V
C823		1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C825		1-107-364-11	MYLAR	0.01MF	10%	200V
C850		1-124-480-11	ELECT	470MF	20%	25V
C852		1-104-574-11	CERAMIC	0.0047MF	10%	2KV
C853		1-162-318-11	CERAMIC	0.001MF	10%	500V
C854		1-124-480-11	ELECT	470MF	20%	25V
C856		1-162-318-11	CERAMIC	0.001MF	10%	500V
C857		1-136-159-00	FILM	0.033MF	5%	50V
C860		1-102-228-00	CERAMIC	470PF	10%	500V
C861		1-107-654-11	ELECT	33MF	20%	250V
C875		1-128-562-11	ELECT	47MF	20%	100V
C876		1-107-369-11	MYLAR	0.068MF	10%	100V
C891		1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C898		1-137-150-11	MYLAR	0.01MF	10%	100V
C901		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C902		1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C1201		1-126-933-11	ELECT (KV-T21MN8)	100MF	20%	16V
C1201		1-104-665-11	ELECT (KV-T21MN81)	100MF	20%	16V
C1202		1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1203		1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1204		1-126-933-11	ELECT (KV-T21MN8)	100MF	20%	16V
C1204		1-104-665-11	ELECT (KV-T21MN81)	100MF	20%	16V
C1205		1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1206		1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1210		1-126-933-11	ELECT (KV-T21MN8)	100MF	20%	16V
C1210		1-104-665-11	ELECT (KV-T21MN81)	100MF	20%	16V
C1212		1-126-960-11	ELECT	1MF	20%	50V
C1213		1-126-960-11	ELECT	1MF	20%	50V
C1214		1-126-964-11	ELECT	10MF	20%	50V
C1215		1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C1216		1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1217		1-126-933-11	ELECT (KV-T21MN8)	100MF	20%	16V
C1217		1-104-665-11	ELECT (KV-T21MN81)	100MF	20%	16V
C1218		1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C1219		1-126-933-11	ELECT	100MF	20%	16V
C1221		1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1222		1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1223		1-164-346-11	CERAMIC CHIP	1MF		16V
C1224		1-216-295-91	SHORT	0		
C1225		1-164-005-11	CERAMIC CHIP	0.47MF		25V
C1226		1-126-934-11	ELECT	220MF	20%	16V
C1228		1-164-346-11	CERAMIC CHIP	1MF		16V
C1513		1-124-122-11	ELECT	100MF	20%	50V

<CONNECTOR>

CN101	*	1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
CN102	*	1-564-508-11	PLUG, CONNECTOR 5P
CN103	*	1-564-509-11	PLUG, CONNECTOR 6P
CN106	*	1-770-747-11	CONNECTOR, BOARD TO BOARD 12P (KV-T21MN81 ONLY)
CN111	*	1-564-505-11	PLUG, CONNECTOR 2P
CN251	*	1-564-507-11	PLUG, CONNECTOR 4P
CN601	*	1-580-843-11	PIN, CONNECTOR (POWER)
CN602	*	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P
CN604		1-695-915-11	TAB (CONTACT)
CN605		1-695-915-11	TAB (CONTACT)
CN606		1-695-915-11	TAB (CONTACT)
CN607		1-695-915-11	TAB (CONTACT)
CN609	*	1-564-506-11	PLUG, CONNECTOR 3P
CN612		1-695-915-11	TAB (CONTACT)
CN613		1-695-915-11	TAB (CONTACT)
CN614		1-695-915-11	TAB (CONTACT)
CN615		1-695-915-11	TAB (CONTACT)
CN851	*	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P

<TRIMMER>

CT45	1-579-690-11	TRAP, CERAMIC
CT55	1-404-801-11	TRAP, CERAMIC
CT60	1-409-429-11	TRAP, CERAMIC
CT65	1-409-327-00	TRAP, CERAMIC (6.5MHZ)

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The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>	
D001	8-719-109-81	DIODE RD4.7ESB2	
D002	8-719-911-19	DIODE 1SS119-25	
D003	8-719-041-97	DIODE MA113-(TX)	
D005	8-719-109-84	DIODE RD5.1ESB1	
D008	8-719-109-89	DIODE RD5.6ESB2	
D103	8-719-914-42	DIODE DA204K	
D251	8-719-911-19	DIODE 1SS119-25	
D252	8-719-914-42	DIODE DA204K	
D301	8-719-041-97	DIODE MA113-(TX)	
D305	8-719-041-97	DIODE MA113-(TX)	
D306	8-719-911-19	DIODE 1SS119-25	
D307	8-719-911-19	DIODE 1SS119-25	
D308	8-719-109-54	DIODE RD2.2ESB2	
D310	8-719-041-97	DIODE MA113-(TX)	
D311	8-719-109-54	DIODE RD2.2ESB2	
D312	8-719-110-08	DIODE RD8.2ESB2	
D315	8-719-121-24	DIODE RD9.1ESL	
D351	8-719-908-03	DIODE GP08D	
D399	8-719-977-22	DIODE DTZ9.1	
D401	8-719-421-40	DIODE MA77	
D402	8-719-911-19	DIODE 1SS119-25	
D403	8-719-911-19	DIODE 1SS119-25	
D513	8-719-109-84	DIODE RD5.1ESB1	
D551	8-719-908-03	DIODE GP08D	
D561	8-719-911-19	DIODE 1SS119-25	
D591	8-719-911-19	DIODE 1SS119-25	
D601	8-719-052-84	DIODE LN4SB60	
D601	8-719-510-53	DIODE D4SB60L	
D604	8-719-301-64	DIODE RU4DS	
D605	8-719-067-18	DIODE RN4Z	
D606	8-719-510-73	DIODE S3L20UF4	
D607	8-719-510-26	DIODE D1NL20	
D609	8-719-510-26	DIODE D1NL20	
D610	8-719-510-26	DIODE D1NL20	
D611	8-719-510-26	DIODE D1NL20	
D801	8-719-945-80	DIODE ERC06-15S	
D802	8-719-900-26	DIODE ERD29-08J	
D851	8-719-302-43	DIODE EL1Z	
D852	8-719-028-72	DIODE RGP02-17EL-6433	
D853	8-719-302-43	DIODE EL1Z	
D855	8-719-302-43	DIODE EL1Z	
D857	8-719-908-03	DIODE GP08D	
D858	8-719-908-03	DIODE GP08D	
D860	8-719-911-19	DIODE 1SS119-25	
D901	8-719-054-60	DIODE LNK0220022G	
D1201	8-719-121-24	DIODE RD9.1ESL	
D1202	8-719-121-24	DIODE RD9.1ESL	
D1203	8-719-121-24	DIODE RD9.1ESL	
D1207	8-719-121-24	DIODE RD9.1ESL	
D1208	8-719-121-24	DIODE RD9.1ESL	
D1209	8-719-121-24	DIODE RD9.1ESL	
D1504	8-719-911-19	DIODE 1SS119-25	
D1505	8-719-109-81	DIODE RD4.7ESB2	
		<FUSE>	
F601	⚠ 1-532-237-11	FUSE, TIME-LAG (BET) 3.15A/250V (KV-T21MN81 ONLY)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
		<FERRITE BEAD>	
FB101	1-410-397-21	FERRITE 1.1UH	
FB102	1-410-397-21	FERRITE 1.1UH	
FB103	1-410-397-21	FERRITE 1.1UH	
FB251	1-410-397-21	FERRITE 1.1UH	
FB601	1-410-397-21	FERRITE 1.1UH	
FB603	1-410-397-21	FERRITE 1.1UH	
FB610	1-410-397-21	FERRITE 1.1UH	
FB612	1-410-397-21	FERRITE 1.1UH	
FB801	1-410-397-21	FERRITE 1.1UH	
		<IC>	
IC001	8-752-893-68	IC CXP85224A-062S	
IC002	8-759-805-37	IC L78LR05D-MA	
IC003	8-759-370-33	IC ST24C04FB6	
IC004	8-742-041-12	HYB IC SBX1981-11(12)	
IC201	8-759-090-21	IC TDA8424	
IC202	8-759-708-12	IC NJM78L12A	
IC203	8-759-339-60	IC TA8248K	
IC300	8-759-365-26	IC TDA8375A	
IC351	8-759-288-85	IC TDA4665T-T	
IC354	8-759-251-56	IC TDA8395T	
IC401	8-759-800-65	IC LA7910	
IC521	8-759-054-12	IC PQ09RA1	
IC551	8-759-801-98	IC LA7830	
IC601	8-749-014-00	IC STR-S6707N	
IC602	8-749-921-89	IC SE115N	
IC603	⚠ 8-749-010-64	PHOTO COUPLER PC123F2	
IC801	8-759-100-96	IC UPC4558G2	
IC1201	8-759-157-40	IC UPC574J	
IC1210	8-759-100-96	IC UPC4558G2	
IC1211	8-759-711-23	IC NJM2234L	
IC1212	8-759-711-23	IC NJM2234L	
		<JACK>	
J251	1-770-786-11	JACK	
J1201	1-770-661-11	JACK BLOCK, PIN 6P	
J1202	1-695-585-11	JACK BLOCK, PIN (L TYPE) 3P	
		<CHIP CONDUCTOR>	
JR050	1-216-295-91	SHORT 0	
JR052	1-216-295-91	SHORT 0	
JR101	1-216-295-91	SHORT 0	
JR103	1-216-295-91	SHORT 0 (KV-T21MN81 ONLY)	
JR108	1-216-295-91	SHORT 0	
JR113	1-216-295-91	SHORT 0	
JR115	1-216-295-91	SHORT 0	
JR116	1-216-295-91	SHORT 0	
JR117	1-216-295-91	SHORT 0	
		<COIL>	
L001	1-408-397-00	INDUCTOR 1UH	
L002	1-410-509-11	INDUCTOR 10UH	
L003	1-408-605-31	INDUCTOR 15UH	
L101	1-410-470-11	INDUCTOR 10UH	
L301	1-408-598-31	INDUCTOR 3.9UH	

REF. NO.	PART NO.	DESCRIPTION		REMARK
L401	1-410-498-11	INDUCTOR	1.2UH	
L402	1-410-510-11	INDUCTOR	12UH	
L403	1-410-510-11	INDUCTOR	12UH	
L404	1-410-508-11	INDUCTOR	8.2UH	
L405	1-410-508-11	INDUCTOR	8.2UH	
L406	1-410-507-11	INDUCTOR	6.8UH	
L407	1-410-511-11	INDUCTOR	15UH	
L802	1-412-527-11	INDUCTOR	15UH	
L804	1-459-075-00	COIL, CORE		
L805	1-459-769-13	COIL, HORIZONTAL LINEARITY		
L807	1-459-390-00	INDUCTOR	0UH	
L808	1-412-553-11	INDUCTOR	3.3MMH	
L821	1-459-111-00	INDUCTOR	0UH	
L850	1-408-947-00	INDUCTOR	2.2MMH	
		<TRANSISTOR>		
Q030	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q108	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q109	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q110	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q202	8-729-216-22	TRANSISTOR 2SA1162-G		
Q207	8-729-216-22	TRANSISTOR 2SA1162-G		
Q208	8-729-421-19	TRANSISTOR UN2213		
Q209	8-729-424-67	TRANSISTOR UN2216		
Q210	8-729-424-67	TRANSISTOR UN2216		
Q301	8-729-421-22	TRANSISTOR UN2211		
Q302	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q303	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q401	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q402	8-729-922-66	TRANSISTOR 2SC2410SN		
Q403	8-729-424-67	TRANSISTOR UN2216		
Q404	8-729-424-67	TRANSISTOR UN2216		
Q405	8-729-216-22	TRANSISTOR 2SA1162-G		
Q406	8-729-216-22	TRANSISTOR 2SA1162-G		
Q407	8-729-216-22	TRANSISTOR 2SA1162-G		
Q408	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q409	8-729-216-22	TRANSISTOR 2SA1162-G		
Q410	8-729-216-22	TRANSISTOR 2SA1162-G		
Q411	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q412	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q413	8-729-424-67	TRANSISTOR UN2216		
Q414	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q415	8-729-424-67	TRANSISTOR UN2216		
Q416	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q417	8-729-424-67	TRANSISTOR UN2216		
Q418	8-729-424-67	TRANSISTOR UN2216		
Q561	8-729-200-17	TRANSISTOR 2SA1091-O		
Q801	8-729-140-50	TRANSISTOR 2SC3209LK		
Q802	8-729-821-87	TRANSISTOR 2SD1878-CA		
Q821	8-729-209-15	TRANSISTOR 2SD2012		
Q902	8-729-421-19	TRANSISTOR UN2213		
Q903	8-729-421-19	TRANSISTOR UN2213		
Q1201	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q1202	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q1203	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q1204	8-729-216-22	TRANSISTOR 2SA1162-G		
Q1205	8-729-216-22	TRANSISTOR 2SA1162-G		
Q1206	8-729-216-22	TRANSISTOR 2SA1162-G		
Q1207	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q1208	8-729-422-27	TRANSISTOR 2SD601A-Q		
Q1264	8-729-424-67	TRANSISTOR UN2216		
Q1265	8-729-424-67	TRANSISTOR UN2216		
Q1513	8-729-422-27	TRANSISTOR 2SD601A-Q		
		<RESISTOR>		
R001	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R002	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R003	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R004	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R007	1-216-073-00	RES,CHIP	10K 5% 1/10W	
R008	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R009	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R010	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R012	1-216-017-91	RES,CHIP	47 5% 1/10W	
R013	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R014	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R015	1-216-043-91	RES,CHIP	560 5% 1/10W	
R016	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R017	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	
R018	1-216-033-00	RES,CHIP	220 5% 1/10W	
R019	1-216-101-00	RES,CHIP	150K 5% 1/10W	
R020	1-216-025-91	RES,CHIP	100 5% 1/10W (KV-T21MN81 ONLY)	
R021	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R025	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	
R026	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	
R027	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R028	1-216-025-91	RES,CHIP	100 5% 1/10W	
R029	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R031	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R032	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	
R033	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R035	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R036	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R037	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R038	1-216-033-00	RES,CHIP	220 5% 1/10W	
R040	1-216-033-00	RES,CHIP	220 5% 1/10W	
R041	1-216-025-91	RES,CHIP	100 5% 1/10W	
R042	1-216-039-00	RES,CHIP	390 5% 1/10W	
R045	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	
R047	1-216-025-91	RES,CHIP	100 5% 1/10W	
R048	1-216-025-91	RES,CHIP	100 5% 1/10W	
R053	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	
R054	1-216-073-00	RES,CHIP	10K 5% 1/10W	
R057	1-216-049-91	RES,CHIP	1K 5% 1/10W	
R058	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	
R060	1-216-037-00	RES,CHIP	330 5% 1/10W	
R061	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	
R062	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	
R063	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	
R065	1-216-033-00	RES,CHIP	220 5% 1/10W	
R066	1-216-033-00	RES,CHIP	220 5% 1/10W	
R068	1-216-025-91	RES,CHIP	100 5% 1/10W	
R071	1-216-037-00	RES,CHIP	330 5% 1/10W	
R076	1-216-025-91	RES,CHIP	100 5% 1/10W	
R077	1-216-025-91	RES,CHIP	100 5% 1/10W	

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R090	1-216-073-00	RES,CHIP	10K	5%	1/10W
R101	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R102	1-216-049-91	RES,CHIP	1K	5%	1/10W
R113	1-216-081-00	RES,CHIP	22K	5%	1/10W
R114	1-216-041-00	RES,CHIP	470	5%	1/10W
R115	1-216-081-00	RES,CHIP	22K	5%	1/10W
R116	1-216-081-00	RES,CHIP	22K	5%	1/10W
R117	1-216-081-00	RES,CHIP	22K	5%	1/10W
R118	1-216-081-00	RES,CHIP	22K	5%	1/10W
R119	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R120	1-216-109-00	RES,CHIP	330K	5%	1/10W
R131	1-216-464-11	METAL OXIDE	18K	5%	2W F
R180	1-216-033-00	RES,CHIP	220	5%	1/10W
R181	1-216-033-00	RES,CHIP	220	5%	1/10W
R182	1-216-033-00	RES,CHIP	220	5%	1/10W
R203	1-216-033-00	RES,CHIP	220	5%	1/10W
R204	1-216-033-00	RES,CHIP	220	5%	1/10W
R240	1-216-035-00	RES,CHIP	270	5%	1/10W
R242	1-216-035-00	RES,CHIP	270	5%	1/10W
R243	1-216-073-00	RES,CHIP	10K	5%	1/10W
R244	1-216-073-00	RES,CHIP	10K	5%	1/10W
R245	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R246	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R247	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R248	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R249	1-216-049-91	RES,CHIP	1K	5%	1/10W
R250	1-216-049-91	RES,CHIP	1K	5%	1/10W
R251	1-216-295-91	SHORT	0		
R252	1-249-411-11	CARBON	330	5%	1/4W
R253	1-216-073-00	RES,CHIP	10K	5%	1/10W
R254	1-249-389-11	CARBON	4.7	5%	1/4W
R255	1-249-389-11	CARBON	4.7	5%	1/4W
R256	1-249-411-11	CARBON	330	5%	1/4W
R264	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R265	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R266	1-216-089-91	RES,CHIP	47K	5%	1/10W
R302	1-216-295-91	SHORT	0		
R303	1-216-025-91	RES,CHIP	100	5%	1/10W
R304	1-216-025-91	RES,CHIP	100	5%	1/10W
R305	1-216-025-91	RES,CHIP	100	5%	1/10W
R306	1-216-025-91	RES,CHIP	100	5%	1/10W
R307	1-216-025-91	RES,CHIP	100	5%	1/10W
R308	1-216-033-00	RES,CHIP	220	5%	1/10W
R309	1-216-033-00	RES,CHIP	220	5%	1/10W
R310	1-216-097-91	RES,CHIP	100K	5%	1/10W
R311	1-216-075-00	RES,CHIP	12K	5%	1/10W
R312	1-216-025-91	RES,CHIP	100	5%	1/10W
R313	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R314	1-216-295-91	SHORT	0		
R315	1-216-295-91	SHORT	0		
R316	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R317	1-216-049-91	RES,CHIP	1K	5%	1/10W
R318	1-216-099-00	RES,CHIP	120K	5%	1/10W
R319	1-216-123-11	RES,CHIP	1.2M	5%	1/10W
R320	1-216-083-00	RES,CHIP	27K	5%	1/10W
R321	1-216-689-11	METAL CHIP	39K	0.50%	1/10W
R322	1-216-083-00	RES,CHIP	27K	5%	1/10W
R325	1-216-295-91	SHORT	0		
R326	1-216-039-00	RES,CHIP	390	5%	1/10W
R327	1-216-295-91	SHORT	0 (KV-T21MN8)		

REF. NO.	PART NO.	DESCRIPTION			REMARK
R327	1-216-029-00	RES,CHIP (KV-T21MN81)	150	5%	1/10W
R328	1-216-295-91	SHORT	0 (KV-T21MN8)		
R328	1-216-029-00	RES,CHIP (KV-T21MN81)	150	5%	1/10W
R329	1-216-295-91	SHORT	0 (KV-T21MN8)		
R329	1-216-029-00	RES,CHIP (KV-T21MN81)	150	5%	1/10W
R330	1-216-043-91	RES,CHIP	560	5%	1/10W
R331	1-216-117-00	RES,CHIP	680K	5%	1/10W
R332	1-216-033-00	RES,CHIP	220	5%	1/10W
R334	1-216-041-00	RES,CHIP	470	5%	1/10W
R335	1-216-073-00	RES,CHIP	10K	5%	1/10W
R336	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R338	1-216-295-91	SHORT	0		
R339	1-216-036-00	RES,CHIP (KV-T21MN8 ONLY)	300	5%	1/10W
R340	1-216-035-00	RES,CHIP (KV-T21MN8 ONLY)	270	5%	1/10W
R341	1-216-049-91	RES,CHIP	1K	5%	1/10W
R342	1-216-036-00	RES,CHIP (KV-T21MN81 ONLY)	300	5%	1/10W
R343	1-216-035-00	RES,CHIP (KV-T21MN81 ONLY)	270	5%	1/10W
R344	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R351	1-216-001-00	RES,CHIP	10	5%	1/10W
R355	1-216-001-00	RES,CHIP	10	5%	1/10W
R356	1-216-049-91	RES,CHIP	1K	5%	1/10W
R357	1-216-097-91	RES,CHIP (KV-T21MN81 ONLY)	100K	5%	1/10W
R360	1-208-291-11	RES,CHIP	4.7M	5%	1/10W
R401	1-216-085-00	RES,CHIP	33K	5%	1/10W
R402	1-216-081-00	RES,CHIP	22K	5%	1/10W
R403	1-216-021-00	RES,CHIP	68	5%	1/10W
R404	1-216-035-00	RES,CHIP	270	5%	1/10W
R406	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R407	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R408	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R409	1-216-025-91	RES,CHIP	100	5%	1/10W
R410	1-216-073-00	RES,CHIP	10K	5%	1/10W
R411	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R412	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R413	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R414	1-216-041-00	RES,CHIP	470	5%	1/10W
R415	1-216-033-00	RES,CHIP	220	5%	1/10W
R416	1-216-033-00	RES,CHIP	220	5%	1/10W
R417	1-216-033-00	RES,CHIP	220	5%	1/10W
R418	1-216-045-00	RES,CHIP	680	5%	1/10W
R419	1-216-049-91	RES,CHIP	1K	5%	1/10W
R420	1-216-039-00	RES,CHIP	390	5%	1/10W
R421	1-216-033-00	RES,CHIP	220	5%	1/10W
R422	1-216-027-00	RES,CHIP	120	5%	1/10W
R423	1-216-029-00	RES,CHIP	150	5%	1/10W
R424	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R425	1-216-039-00	RES,CHIP	390	5%	1/10W
R426	1-216-029-00	RES,CHIP	150	5%	1/10W
R427	1-216-037-00	RES,CHIP	330	5%	1/10W
R428	1-216-081-00	RES,CHIP	22K	5%	1/10W
R429	1-216-031-00	RES,CHIP	180	5%	1/10W
R430	1-216-041-00	RES,CHIP	470	5%	1/10W
R431	1-216-081-00	RES,CHIP	22K	5%	1/10W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF. NO.		PART NO.	DESCRIPTION			REMARK
R432		1-216-041-00	RES,CHIP	470	5%	1/10W
R433		1-216-081-00	RES,CHIP	22K	5%	1/10W
R434		1-216-041-00	RES,CHIP	470	5%	1/10W
R435		1-216-041-00	RES,CHIP	470	5%	1/10W
R436		1-216-081-00	RES,CHIP	22K	5%	1/10W
R437		1-216-081-00	RES,CHIP	22K	5%	1/10W
R440		1-216-029-00	RES,CHIP	150	5%	1/10W
R441		1-216-021-00	RES,CHIP	68	5%	1/10W
R521		1-216-049-91	RES,CHIP	1K	5%	1/10W
R552		1-216-101-00	RES,CHIP	150K	5%	1/10W
R553		1-216-081-00	RES,CHIP	22K	5%	1/10W
R554		1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
R555		1-249-429-11	CARBON	10K	5%	1/4W
R556		1-216-049-91	RES,CHIP	1K	5%	1/10W
R557		1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R560		1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R561		1-249-421-11	CARBON	2.2K	5%	1/4W
R562		1-249-419-11	CARBON	1.5K	5%	1/4W F
R563		1-260-126-11	CARBON	180K	5%	1/2W
R564		1-216-091-00	RES,CHIP	56K	5%	1/10W
R565		1-216-091-00	RES,CHIP	56K	5%	1/10W
R566		1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R569		1-260-354-71	CARBON	150K	5%	1/2W
R570		1-216-295-91	SHORT	0		
R571		1-216-033-00	RES,CHIP	220	5%	1/10W
R601		1-202-961-11	CEMENTED (KV-T21MN8)	1.8	5%	10W
R601		1-202-968-11	CEMENTED (KV-T21MN81)	1.2	5%	10W
R602		1-202-968-11	CEMENTED	1.2	5%	10W
R606		1-215-915-11	METAL OXIDE	470	5%	3W F
R610		1-215-924-00	METAL OXIDE	15K	5%	3W F
R611		1-202-933-61	FUSIBLE	0.1	10%	1/2W F
R612		1-219-134-11	FUSIBLE	0.1	10%	1/4W
R613		1-219-134-11	FUSIBLE	0.1	10%	1/4W
R614		1-215-877-11	METAL OXIDE	22K	5%	1W F
R615		1-249-389-11	CARBON	4.7	5%	1/4W
R616	⚠	1-218-265-91	METAL	8.2M	5%	1W
R617		1-215-924-00	METAL OXIDE	15K	5%	3W F
R618		1-219-134-11	FUSIBLE	0.1	10%	1/4W
R619		1-219-134-11	FUSIBLE	0.1	10%	1/4W
R622		1-217-192-21	WIREWOUND	0.22	10%	2W F
R623		1-247-807-31	CARBON	100	5%	1/4W
R624		1-216-446-00	METAL OXIDE	18	5%	2W F
R625		1-249-424-11	CARBON	3.9K	5%	1/4W
R626		1-249-420-11	CARBON	1.8K	5%	1/4W
R627		1-249-417-11	CARBON	1K	5%	1/4W
R628		1-249-417-11	CARBON	1K	5%	1/4W
R629		1-249-399-11	CARBON	33	5%	1/4W
R632		1-249-381-11	CARBON	1	5%	1/4W
R635		1-215-882-00	METAL OXIDE (KV-T21MN81 ONLY)	22	5%	2W F
R636		1-215-924-00	METAL OXIDE	15K	5%	3W F
R801		1-215-920-11	METAL OXIDE	3.3K	5%	3W F
R802		1-249-385-11	CARBON	2.2	5%	1/4W F
R803		1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R804		1-216-049-91	RES,CHIP	1K	5%	1/10W
R805		1-216-081-00	RES,CHIP	22K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R809	1-247-756-11	CARBON	2.2K	5%	1/2W F
R811	1-216-343-00	METAL OXIDE	0.33	5%	1W F
R812	1-216-075-00	RES,CHIP	12K	5%	1/10W
R816	1-249-435-11	CARBON	33K	5%	1/4W
R820	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R821	1-215-911-11	METAL OXIDE	100	5%	3W F
R822	1-216-429-00	METAL OXIDE	270	5%	1W F
R823	1-249-931-11	CARBON	2.2K	5%	1/4W F
R825	1-249-392-11	CARBON	8.2	5%	1/4W F
R826	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R827	1-216-095-00	RES,CHIP	82K	5%	1/10W
R828	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R829	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R831	1-215-863-11	METAL OXIDE	100	5%	1W F
R832	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R834	1-216-073-00	RES,CHIP	10K	5%	1/10W
R851	1-249-382-11	CARBON	1.2	5%	1/4W F
R852	1-249-417-11	CARBON	1K	5%	1/4W F
R853	1-249-377-11	CARBON	0.47	5%	1/4W F
R854	1-249-377-11	CARBON	0.47	5%	1/4W F
R855	1-202-818-00	SOLID	1K	20%	1/2W
R856	1-249-429-11	CARBON	10K	5%	1/4W
R857	1-249-438-11	CARBON	56K	5%	1/4W
R858	1-216-370-11	METAL OXIDE	1.2	5%	2W F
R860	1-247-887-00	CARBON	220K	5%	1/4W
R881	1-216-043-91	RES,CHIP	560	5%	1/10W
R882	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R883	1-216-121-91	RES,CHIP	1M	5%	1/10W
R895	1-216-349-00	METAL OXIDE	1	5%	1W F
R898	1-249-421-11	CARBON	2.2K	5%	1/4W
R902	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R904	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R905	1-216-049-91	RES,CHIP	1K	5%	1/10W
R906	1-216-049-91	RES,CHIP	1K	5%	1/10W
R907	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R908	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R909	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R910	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R911	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R913	1-216-041-00	RES,CHIP	470	5%	1/10W
R914	1-216-041-00	RES,CHIP	470	5%	1/10W
R915	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R1201	1-216-023-00	RES,CHIP	82	5%	1/10W
R1202	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1203	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1204	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1205	1-216-023-00	RES,CHIP	82	5%	1/10W
R1206	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1207	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1209	1-216-035-00	RES,CHIP	270	5%	1/10W
R1211	1-216-021-00	RES,CHIP	68	5%	1/10W
R1212	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1213	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1214	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1215	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1216	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1218	1-216-041-00	RES,CHIP	470	5%	1/10W

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The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1219	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1220	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1221	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1222	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1223	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1224	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1226	1-216-689-11	RES,CHIP	39K	5%	1/10W
R1227	1-216-689-11	RES,CHIP	39K	5%	1/10W
R1227	1-216-689-11	RES,CHIP	39K	5%	1/10W
R1228	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1229	1-216-041-00	RES,CHIP	470	5%	1/10W
R1230	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1231	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1232	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R1233	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1234	1-216-689-11	RES,CHIP	39K	5%	1/10W
R1235	1-216-689-11	RES,CHIP	39K	5%	1/10W
R1239	1-249-389-11	CARBON	4.7	5%	1/4W F
R1240	1-216-025-91	RES,CHIP	100	5%	1/10W
R1241	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1242	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1243	1-216-025-91	RES,CHIP	100	5%	1/10W
R1244	1-216-025-91	RES,CHIP	100	5%	1/10W
R1245	1-216-037-00	RES,CHIP	330	5%	1/10W
R1246	1-216-037-00	RES,CHIP	330	5%	1/10W
R1247	1-216-041-00	RES,CHIP	470	5%	1/10W
R1248	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R1249	1-216-041-00	RES,CHIP	470	5%	1/10W
R1513	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1514	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1515	1-216-025-91	RES,CHIP	100	5%	1/10W
		<VARIABLE RESISTOR>			
RV301	1-241-769-11	RES, ADJ, CARBON 470K (KV-T21MN81 ONLY)			
		<SWITCH>			
S601 ⚠	1-762-087-11	SWITCH, PUSH (A.C. POWER)			
S801	1-572-707-11	SWITCH, LEVER			
S901	1-570-577-41	SWITCH, PUSH			
S902	1-570-577-41	SWITCH, PUSH			
S903	1-570-577-41	SWITCH, PUSH			
S904	1-570-577-41	SWITCH, PUSH			
S905	1-570-577-41	SWITCH, PUSH			
		<SPARK GAP>			
SG801	1-519-422-11	GAP, SPARK			
		<SURFACE WAVE FILTER>			
SWF401	1-760-771-11	FILTER, SURFACE WAVE			
		<TRANSFORMER>			
T601 ⚠	1-429-137-11	TRANSFORMER, CONVERTER (SRT)			
T605 ⚠	1-424-682-11	TRANSFORMER, LINE FILTER			

REF. NO.	PART NO.	DESCRIPTION	REMARK
T801	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
T851 ⚠	1-453-193-21	TRANSFORMER ASSY, FLYBACK (NX-1742//M3A)	
		<THERMISTOR>	
THP601 ⚠	1-808-059-32	THERMISTOR, POSITIVE	
		<TUNER>	
TU101 ⚠	8-598-323-30	TUNER, VSS BT-AG401 (KV-T21MN8)	
TU101	8-598-323-30	TUNER, VSS BT-AG401 (KV-T21MN81)	
		<CRYSTAL>	
X101	1-577-358-21	VIBRATOR, CERAMIC	
X300	1-411-752-11	COIL	
X358	1-567-505-11	OSCILLATOR, CRYSTAL	
X443	1-567-504-11	OSCILLATOR, CRYSTAL	

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*	A-1297-751-A	A3 BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C1201	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1202	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1205	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C1206	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C1207	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1208	1-163-083-00	CERAMIC CHIP	1PF	0.25PF	50V
C1209	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C1210	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C1211	1-124-584-00	ELECT	100MF	20%	10V
C1212	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C1213	1-126-151-11	ELECT	4.7MF	20%	16V
C1214	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C1215	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1216	1-124-465-00	ELECT	0.47MF	20%	50V
C1217	1-163-033-91	CERAMIC CHIP	0.022MF		50V
C1218	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1219	1-124-584-00	ELECT	100MF	20%	10V
C1221	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1222	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1223	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1224	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1225	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C1226	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1227	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C1228	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C1229	1-126-157-11	ELECT	10MF	20%	16V
C1230	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1231	1-126-157-11	ELECT	10MF	20%	16V
C1232	1-124-234-00	ELECT	22MF	20%	16V
C1233	1-126-162-11	ELECT	3.3MF	20%	50V

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REF. NO.	PART NO.	DESCRIPTION			REMARK
C1234	1-164-004-11	CERAMIC CHIP	0.1MF	10% 25V	
C1235	1-163-005-11	CERAMIC CHIP	470PF	10% 50V	
C1236	1-163-005-11	CERAMIC CHIP	470PF	10% 50V	
C1237	1-163-009-11	CERAMIC CHIP	0.001MF	10% 50V	
C1238	1-164-004-11	CERAMIC CHIP	0.1MF	10% 25V	
C1239	1-126-157-11	ELECT	10MF	20% 16V	
C1240	1-164-222-11	CERAMIC CHIP	0.22MF	25V	
C1241	1-124-589-11	ELECT	47MF	20% 16V	
C1242	1-104-760-11	CERAMIC CHIP	0.047MF	10% 50V	
C1243	1-164-232-11	CERAMIC CHIP	0.01MF	10% 50V	
C1244	1-164-232-11	CERAMIC CHIP	0.01MF	10% 50V	
C1245	1-164-232-11	CERAMIC CHIP	0.01MF	10% 50V	
C1246	1-163-231-11	CERAMIC CHIP	15PF	5% 50V	
C1247	1-163-229-11	CERAMIC CHIP	12PF	5% 50V	
C1248	1-163-009-11	CERAMIC CHIP	0.001MF	10% 50V	
C1250	1-163-009-11	CERAMIC CHIP	0.001MF	10% 50V	
C1252	1-216-295-91	SHORT	0		
C1253	1-216-295-91	SHORT	0		
C1254	1-124-234-00	ELECT	22MF	20% 16V	
C1255	1-124-584-00	ELECT	100MF	20% 10V	
C1256	1-164-005-11	CERAMIC CHIP	0.47MF	25V	
C1257	1-164-222-11	CERAMIC CHIP	0.22MF	25V	
C1258	1-163-033-91	CERAMIC CHIP	0.022MF	50V	
C1260	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
C1261	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
C1262	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
C1263	1-163-137-00	CERAMIC CHIP	680PF	5% 50V	
C1264	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
C1265	1-124-234-00	ELECT	22MF	20% 16V	
C1266	1-124-589-11	ELECT	47MF	20% 16V	
C1267	1-164-004-11	CERAMIC CHIP	0.1MF	10% 25V	
C1268	1-124-584-00	ELECT	100MF	20% 10V	
		<CONNECTOR>			
CN1201	1-691-109-11	PLUG (L TYPE) 12P			
		<DIODE>			
D1201	8-719-908-03	DIODE GP08D			
		<FERRITE BEAD>			
FB1201	1-412-911-11	FERRITE	0UH		
FB1202	1-412-911-11	FERRITE	0UH		
FB1203	1-412-911-11	FERRITE	0UH		
FB1204	1-412-911-11	FERRITE	0UH		
FB1205	1-412-911-11	FERRITE	0UH		
FB1206	1-412-911-11	FERRITE	0UH		
		<FILTER>			
FL1201	1-239-803-11	ENCAPSULATED COMPONENT			
		<IC>			
IC1201	8-752-059-57	IC CXA1110BS			
IC1202	8-759-429-98	IC MSP3410B-PP-F7			
IC1203	8-759-701-75	IC NJM7805FA			

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<CHIP CONDUCTOR>			
JR1	1-216-295-91	SHORT	0		
JR2	1-216-295-91	SHORT	0		
JR3	1-216-295-91	SHORT	0		
JR4	1-216-295-91	SHORT	0		
JR5	1-216-295-91	SHORT	0		
JR6	1-216-295-91	SHORT	0		
JR7	1-216-295-91	SHORT	0		
JR8	1-216-295-91	SHORT	0		
JR9	1-216-295-91	SHORT	0		
JR10	1-216-295-91	SHORT	0		
JR11	1-216-295-91	SHORT	0		
		<COIL>			
L1201	1-408-593-31	INDUCTOR	1.5UH		
L1202	1-412-010-41	INDUCTOR CHIP	22UH		
L1203	1-408-602-31	INDUCTOR	8.2UH		
L1204	1-408-591-11	INDUCTOR	1UH		
L1205	1-408-602-31	INDUCTOR	8.2UH		
L1206	1-412-951-11	INDUCTOR	10UH		
L1207	1-412-951-11	INDUCTOR	10UH		
		<TRANSISTOR>			
Q1201	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1203	8-729-266-92	TRANSISTOR 2SC2669-O			
Q1206	8-729-216-22	TRANSISTOR 2SA1162-G			
Q1207	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1211	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1212	8-729-230-49	TRANSISTOR 2SC2712-YG			
		<RESISTOR>			
R1201	1-216-022-00	RES,CHIP	75	5%	1/10W
R1202	1-216-085-00	RES,CHIP	33K	5%	1/10W
R1203	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1204	1-216-035-00	RES,CHIP	270	5%	1/10W
R1205	1-216-027-00	RES,CHIP	120	5%	1/10W
R1207	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R1210	1-216-041-00	RES,CHIP	470	5%	1/10W
R1211	1-216-015-00	RES,CHIP	39	5%	1/10W
R1212	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1213	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1214	1-216-033-00	RES,CHIP	220	5%	1/10W
R1217	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1218	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1219	1-216-047-91	RES,CHIP	820	5%	1/10W
R1220	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1223	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R1224	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R1225	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R1226	1-216-295-91	SHORT	0		
R1227	1-216-295-91	SHORT	0		
R1228	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1229	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R1230	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R1231	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1232	1-216-027-00	RES,CHIP	120	5%	1/10W

A3 C

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
R1233	1-216-045-00	RES,CHIP	680	5%	1/10W
R1234	1-216-045-00	RES,CHIP	680	5%	1/10W
R1240	1-216-041-00	RES,CHIP	470	5%	1/10W
R1241	1-216-075-00	RES,CHIP	12K	5%	1/10W
R1242	1-216-027-00	RES,CHIP	120	5%	1/10W
R1243	1-216-037-00	RES,CHIP	330	5%	1/10W
R1244	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R1245	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1246	1-260-306-51	CARBON	15	5%	1/2W
		<SWITCH>			
SW1201	1-579-560-11	FILTER, SAWTOOTH WAVE			
SW1202	1-579-559-11	FILTER, SAWTOOTH WAVE			
		<TRANSFORMER>			
T1202	1-416-000-11	COIL			
		<CRYSTAL>			
X1201	1-760-094-11	VIBRATOR, CRYSTAL			
**********					
*	A-1331-577-A	C BOARD, COMPLETE **********			
		<CAPACITOR>			
C701	1-162-114-00	CERAMIC	0.0047MF		2KV
C702	1-102-074-00	CERAMIC	0.001MF	10%	50V
C703	1-107-651-11	ELECT	4.7MF	20%	250V
C704	1-130-202-00	FILM	0.022MF	5%	400V
C708	1-102-114-00	CERAMIC	470PF	10%	50V
C709	1-102-114-00	CERAMIC	470PF	10%	50V
C710	1-102-114-00	CERAMIC	470PF	10%	50V
C712	1-102-115-00	CERAMIC	560PF	10%	50V
C713	1-102-115-00	CERAMIC	560PF	10%	50V
C714	1-102-115-00	CERAMIC	560PF	10%	50V
C716	1-124-122-11	ELECT	100MF	20%	50V
C736	1-102-114-00	CERAMIC	470PF	10%	50V
C737	1-102-114-00	CERAMIC	470PF	10%	50V
C746	1-102-114-00	CERAMIC	470PF	10%	50V
		<CONNECTOR>			
CN701 *	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P			
CN703 *	1-564-509-11	PLUG, CONNECTOR 6P			
CN704	1-695-915-11	TAB (CONTACT)			
		<DIODE>			
D701	8-719-911-19	DIODE 1SS119-25			
D702	8-719-911-19	DIODE 1SS119-25			
D703	8-719-911-19	DIODE 1SS119-25			
D707	8-719-911-19	DIODE 1SS119-25			
D708	8-719-911-19	DIODE 1SS119-25			
D709	8-719-911-19	DIODE 1SS119-25			
D710	8-719-911-19	DIODE 1SS119-25			
D711	8-719-911-19	DIODE 1SS119-25			
D712	8-719-911-19	DIODE 1SS119-25			
D716	8-719-911-19	DIODE 1SS119-25			
D717	8-719-121-24	DIODE RD9.1ESL			
		<JACK>			
J701 ⚠	1-251-239-11	SOCKET, CRT			
		<COIL>			
L701	1-410-667-31	INDUCTOR	22UH		
		<TRANSISTOR>			
Q704	8-729-326-11	TRANSISTOR 2SC2611			
Q705	8-729-326-11	TRANSISTOR 2SC2611			
Q706	8-729-326-11	TRANSISTOR 2SC2611			
Q707	8-729-200-17	TRANSISTOR 2SA1091-O			
Q708	8-729-200-17	TRANSISTOR 2SA1091-O			
Q709	8-729-200-17	TRANSISTOR 2SA1091-O			
Q710	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q711	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q712	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		<RESISTOR>			
R702	1-244-941-00	CARBON	680K	5%	1/2W
R703	1-249-496-11	CARBON	100K	5%	1/2W
R705	1-216-393-00	METAL OXIDE	2.2	5%	3W F
R710	1-215-922-11	METAL OXIDE	6.8K	5%	3W F
R711	1-247-763-11	CARBON	8.2K	5%	1/2W
R712	1-215-922-11	METAL OXIDE	6.8K	5%	3W F
R713	1-247-763-11	CARBON	8.2K	5%	1/2W
R714	1-215-922-11	METAL OXIDE	6.8K	5%	3W F
R715	1-247-763-11	CARBON	8.2K	5%	1/2W
R719	1-215-480-00	METAL	300K	1%	1/4W
R720	1-249-923-11	CARBON	1K	5%	1/4W F
R721	1-215-489-00	METAL	680K	1%	1/4W
R722	1-249-923-11	CARBON	1K	5%	1/4W F
R723	1-215-479-00	METAL	270K	1%	1/4W
R724	1-249-923-11	CARBON	1K	5%	1/4W F
R725	1-249-419-11	CARBON	1.5K	5%	1/4W
R726	1-249-419-11	CARBON	1.5K	5%	1/4W
R727	1-249-419-11	CARBON	1.5K	5%	1/4W
R728	1-249-407-11	CARBON	150	5%	1/4W
R729	1-249-408-11	CARBON	180	5%	1/4W
R730	1-249-408-11	CARBON	180	5%	1/4W
R731	1-247-807-31	CARBON	100	5%	1/4W
R732	1-247-807-31	CARBON	100	5%	1/4W
R733	1-247-807-31	CARBON	100	5%	1/4W
R734	1-247-739-11	CARBON	100	5%	1/2W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

C **F1 (KV-T21MN81)** **V1 (KV-T21MN81)**

REF. NO.	PART NO.	DESCRIPTION			REMARK
R738	1-247-807-31	CARBON	100	5%	1/4W
R739	1-247-807-31	CARBON	100	5%	1/4W
R740	1-247-807-31	CARBON	100	5%	1/4W
R755	1-249-418-11	CARBON	1.2K	5%	1/4W
R756	1-249-418-11	CARBON	1.2K	5%	1/4W
R757	1-249-418-11	CARBON	1.2K	5%	1/4W
		<VARIABLE RESISTOR>			
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M			
**********					
*	A-1241-325-A	F1 BOARD, COMPLETE (KV-T21MN8 ONLY)			
		**********			
	1-533-223-11	CLIP, FUSE			
		<CAPACITOR>			
C1601	1-104-705-51	FILM	0.1MF	20%	250V
		<CONNECTOR>			
CN1601*	1-580-843-11	PIN, CONNECTOR (POWER)			
CN1602*	1-580-843-11	PIN, CONNECTOR (POWER)			
		<FUSE>			
F1601 ⚠	1-532-237-11	FUSE, TIME-LAG (BET) 3.15A/250V			
		<RESISTOR>			
R1601 ⚠	1-202-916-91	SOLID	5.6M	20%	1/2W
		<TRANSFORMER>			
T1601 ⚠	1-424-391-11	TRANSFORMER, LINE FILTER			
T1602 ⚠	1-424-391-11	TRANSFORMER, LINE FILTER			
**********					
*	A-1347-117-A	V1 BOARD, COMPLETE (KV-T21MN81 ONLY)			
		**********			
	4-049-406-01	CASE (BOTTOM LID), SHIELD			
	4-049-407-01	CASE (UPPER LID), SHIELD			
		<CAPACITOR>			
C01	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C02	1-124-907-11	ELECT	10MF	20%	50V
C03	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C04	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C05	1-124-907-11	ELECT	10MF	20%	50V
C06	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C07	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C08	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C09	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C10	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C11	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C12	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C13	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C14	1-216-295-91	SHORT	0		
C15	1-126-966-11	ELECT	33MF	20%	35V
C16	1-126-963-11	ELECT	4.7MF	20%	50V
C17	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C19	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C20	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C22	1-126-964-51	ELECT	10MF	20%	50V
C23	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C24	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C25	1-126-964-51	ELECT	10MF	20%	50V
C26	1-104-665-11	ELECT	100MF	20%	10V
C27	1-104-665-11	ELECT	100MF	20%	16V
C28	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C29	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C30	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C31	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C32	1-104-665-11	ELECT	100MF	20%	10V
		<CONNECTOR>			
CN01 *	1-770-748-11	CONNECTOR, BOARD TO BOARD 12P			
		<DIODE>			
D03	8-719-914-43	DIODE DAN202K			
D04	8-719-105-91	DIODE RD5.6M-B2			
D05	8-719-914-44	DIODE DAP202K			
D06	8-719-914-43	DIODE DAN202K			
D001	8-719-105-52	DIODE RD3.6M-B2			
		<FERRITE BEAD>			
FB01	1-410-397-21	FERRITE	1.1UH		
		<IC>			
IC01	8-759-324-28	IC P83C654FBP/540			
IC02	8-759-298-63	IC SAA5281ZP/E			
		<CHIP CONDUCTOR>			
JR02	1-216-295-91	SHORT	0		
JR03	1-216-295-91	SHORT	0		
JR04	1-216-295-91	SHORT	0		
JR07	1-216-295-91	SHORT	0		
JR08	1-216-295-91	SHORT	0		
JR09	1-216-295-91	SHORT	0		

V1 (KV-T21MN81) VM

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<COIL>			
L01	1-410-464-11	INDUCTOR	3.3UH		
L03	1-410-464-11	INDUCTOR	3.3UH		
L04	1-410-464-11	INDUCTOR	3.3UH		
L05	1-410-464-11	INDUCTOR	3.3UH		
L06	1-410-464-11	INDUCTOR	3.3UH		
		<TRANSISTOR>			
Q01	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q02	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q03	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q04	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q05	8-729-216-22	TRANSISTOR 2SA1162-G			
Q06	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q07	8-729-019-01	TRANSISTOR 2SD2394-EF			
Q08	8-729-140-96	TRANSISTOR 2SD774-34			
Q09	8-729-901-04	TRANSISTOR DTA114EK			
		<RESISTOR>			
R01	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R02	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R03	1-216-085-00	RES,CHIP	33K	5%	1/10W
R04	1-216-025-91	RES,CHIP	100	5%	1/10W
R05	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R06	1-216-075-00	RES,CHIP	12K	5%	1/10W
R07	1-216-025-91	RES,CHIP	100	5%	1/10W
R08	1-216-025-91	RES,CHIP	100	5%	1/10W
R09	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R10	1-216-083-00	RES,CHIP	27K	5%	1/10W
R11	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R12	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R13	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R14	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
R16	1-216-073-00	RES,CHIP	10K	5%	1/10W
R17	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R18	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R19	1-216-049-91	RES,CHIP	1K	5%	1/10W
R20	1-216-049-91	RES,CHIP	1K	5%	1/10W
R21	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R22	1-216-041-00	RES,CHIP	470	5%	1/10W
R24	1-216-025-91	RES,CHIP	100	5%	1/10W
R25	1-216-025-91	RES,CHIP	100	5%	1/10W
R26	1-216-049-91	RES,CHIP	1K	5%	1/10W
R27	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R28	1-216-025-91	RES,CHIP	100	5%	1/10W
R29	1-216-025-91	RES,CHIP	100	5%	1/10W
R30	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R31	1-216-025-91	RES,CHIP	100	5%	1/10W
R32	1-216-071-00	RES,CHIP	8.2K	5%	1/10W
R33	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R34	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R35	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R36	1-216-025-91	RES,CHIP	100	5%	1/10W
R37	1-216-049-91	RES,CHIP	1K	5%	1/10W
R38	1-260-095-11	CARBON	470	5%	1/2W
R41	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R42	1-216-077-00	RES,CHIP	15K	5%	1/10W
R43	1-216-295-91	SHORT	0		
R44	1-216-083-00	RES,CHIP	27K	5%	1/10W
R45	1-216-021-00	RES,CHIP	68	5%	1/10W
R46	1-216-021-00	RES,CHIP	68	5%	1/10W
R47	1-216-021-00	RES,CHIP	68	5%	1/10W
R48	1-216-049-91	RES,CHIP	1K	5%	1/10W
R49	1-216-049-91	RES,CHIP	1K	5%	1/10W
R50	1-216-049-91	RES,CHIP	1K	5%	1/10W
		<CRYSTAL>			
X01	1-579-266-31	CRYSTAL VIBRATOR			

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*	A-1342-395-A	VM BOARD, COMPLETE			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C1722	1-102-115-00	CERAMIC	560PF	10%	50V
C1724	1-102-961-00	CERAMIC	27PF	5%	50V
C1751	1-136-153-00	FILM	0.01MF	5%	50V
C1761	1-161-830-00	CERAMIC	0.0047MF		500V
C1763	1-107-638-11	ELECT	33MF	20%	160V
C1764	1-126-933-11	ELECT	100MF	20%	16V
C1768	1-106-383-00	MYLAR	0.047MF	10%	200V
C1769	1-107-667-11	ELECT	2.2MF	20%	160V
C1770	1-104-999-11	MYLAR	0.1MF	10%	200V
C1771	1-126-964-11	ELECT	10MF	20%	50V
C1772	1-126-933-11	ELECT	100MF	20%	16V
C1773	1-106-383-00	MYLAR	0.047MF	10%	200V
C1775	1-126-933-11	ELECT	100MF	20%	16V
C1776	1-126-964-11	ELECT	10MF	20%	50V
C1778	1-130-471-00	MYLAR	0.001MF	5%	50V
C1779	1-130-471-00	MYLAR	0.001MF	5%	50V
C1780	1-126-964-11	ELECT	10MF	20%	50V
		<CONNECTOR>			
CN1701	* 1-564-511-61	PLUG, CONNECTOR 8P			
		<DIODE>			
D1761	8-719-911-19	DIODE 1SS119-25			
D1763	8-719-911-19	DIODE 1SS119-25			
D1764	8-719-911-19	DIODE 1SS119-25			
D1767	8-719-110-88	DIODE RD39ESB2			
D1768	8-719-110-88	DIODE RD39ESB2			
		<COIL>			
L1721	1-414-191-11	INDUCTOR	150UH		
L1722	1-408-621-31	INDUCTOR	330UH		
L1723	1-414-182-11	INDUCTOR	6.8UH		

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

VM

REF. NO.	PART NO.	DESCRIPTION				REMARK
L1761	1-410-478-11	INDUCTOR	47UH			
L1762	1-408-610-31	INDUCTOR	39UH			
		<TRANSISTOR>				
Q1722	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1723	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1756	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1761	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1762	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q1763	8-729-017-05	TRANSISTOR 2SA1837				
Q1764	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1765	8-729-017-06	TRANSISTOR 2SC4793				
Q1766	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1767	8-729-142-86	TRANSISTOR 2SC3733				
Q1777	8-729-326-11	TRANSISTOR 2SC2611				
		<RESISTOR>				
R1721	1-249-414-11	CARBON	560	5%	1/4W	
R1722	1-249-412-11	CARBON	390	5%	1/4W	
R1723	1-249-407-11	CARBON	150	5%	1/4W	
R1724	1-249-407-11	CARBON	150	5%	1/4W	
R1725	1-249-412-11	CARBON	390	5%	1/4W	
R1727	1-247-843-11	CARBON	3.3K	5%	1/4W	
R1728	1-249-429-11	CARBON	10K	5%	1/4W	
R1732	1-126-964-11	ELECT	10MF	20%	50V	
R1736	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1753	1-247-843-11	CARBON	3.3K	5%	1/4W	
R1762	1-247-815-91	CARBON	220	5%	1/4W	
R1764	1-247-734-11	CARBON	39	5%	1/2W	F
R1765	1-249-414-11	CARBON	560	5%	1/4W	F
R1766	1-249-418-11	CARBON	1.2K	5%	1/4W	
R1768	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1769	1-249-384-11	CARBON	1.8	5%	1/4W	F
R1770	1-249-435-11	CARBON	33K	5%	1/4W	
R1772	1-249-432-11	CARBON	18K	5%	1/4W	
R1774	1-215-912-11	METAL OXIDE	150	5%	3W	F
R1775	1-249-417-11	CARBON	1K	5%	1/4W	F
R1776	1-249-432-11	CARBON	18K	5%	1/4W	
R1777	1-249-438-11	CARBON	56K	5%	1/4W	
R1778	1-249-430-11	CARBON	12K	5%	1/4W	
R1779	1-249-414-11	CARBON	560	5%	1/4W	
R1780	1-249-418-11	CARBON	1.2K	5%	1/4W	
R1781	1-249-410-11	CARBON	270	5%	1/4W	
R1782	1-249-384-11	CARBON	1.8	5%	1/4W	F
R1784	1-247-807-31	CARBON	100	5%	1/4W	
R1785	1-249-400-11	CARBON	39	5%	1/4W	F
R1786	1-249-435-11	CARBON	33K	5%	1/4W	
R1787	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1788	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1789	1-249-413-11	CARBON	470	5%	1/4W	
R1790	1-216-451-11	METAL OXIDE	120	5%	2W	F
R1791	1-249-411-11	CARBON	330	5%	1/4W	
R1812	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1851	1-249-393-11	CARBON	10	5%	1/4W	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS	
		**********	
⚠	1-409-942-11	COIL, DEMAGNETIZATION	
	1-452-032-00	MAGNET,DISC	
	1-452-277-00	MAGNET, BMC	
	1-452-509-51	NECK ASSY, CRT (NA308)	
	1-504-305-11	SPEAKER (12X5CM)	
⚠	1-569-008-11	ADAPTOR, CONVERSION 2P (KV-T21MN81 ONLY)	
⚠	1-769-609-21	CORD, POWER (WITH CONNECTOR) (KV-T21MN8)	
⚠	1-574-062-61	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-T21MN81)	
⚠	1-900-700-05	LEAD ASSY, FOCUS	
	8-451-280-33	DY (Y21PXA2) (KV-T21MN8)	
	8-451-280-81	DY (Y21PXA2-S3) (KV-T21MN81)	
⚠	8-738-774-05	PICTURE TUBE (A51JUH71X)	

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		ACCESSORIES AND PACKING MATERIALS	
		**********	
⚠	1-569-008-11	ADAPTOR, CONVERSION 2P (KV-T21MN81 ONLY)	
	3-701-910-01	SCREW, SPECIAL (DIA. 3.8X20)	
	3-862-944-11	MANUAL, INSTRUCTION	
*	4-065-446-01	INDIVIDUAL CARTON	
*	4-065-447-01	CUSHION (UPPER) (ASSY)	
*	4-065-448-01	CUSHION (LOWER) (ASSY)	
*	4-055-210-11	BAG, PROTECTION	
	4-392-003-41	BAND, HOLD	
	4-392-004-31	CLIP	

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		REMOTE COMMANDER	
		**********	
	1-473-323-11	REMOTE COMMANDER (RM-870)	

Sony Corporation
Display Company
TV Display Business Asia

9-965-684-01

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